

# SEQUENCE LISTING

<110> CANON KABUSHIKI KAISHA

<120> Probe set and method for identification of allele of HLA

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gagtattggg 180

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tgaccgagcg 300

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caccatccag 360

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ccggcaggac 420

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gagtattggg 180

accaggagac acggaatatg aaggccact cacagactga ccgagcgaac  
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tacgacgca 360

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accaggagac acggaatatg aaggccact cacagactga ccgagcgaac  
ctggggaccc 240

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gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

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atggcagctc 420

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<213> Homo sapiens

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cgagccagaa gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180

accaggagac acggaatgtg aaggccact cacagactga ccgagagaac  
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atgtatggct 300

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tacgacggca 360

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gagtattggg 180

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tacgacgga 360

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caccatccag 360  
  
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cacactgacc 720  
  
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ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtcggttc 180

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gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

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catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

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agcgcacgga 600  
  
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<211> 546

<212> DNA

<213> Homo sapiens

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gcacgg  
546



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atgtatggct 300  
  
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tacgacggca 360  
  
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gcctacctgg 480  
  
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cagcggtatg 660  
  
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gatggaacct 720  
  
tcagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac  
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tacgacggca 360

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gaagccaccc 600

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gatggaacct 720

tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac  
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<212> DNA

<213> Homo sapiens

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agcgacgcgc 120

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gagtattggg 180

acggggagac acggaaagtg aagggccact cacagactca ccgagtggac  
ctggggaccc 240

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gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

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agggcacgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

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gaagccaccc 600

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cagcgggatg 660

gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720

tccagaagtg ggcggctgtg gtgggtgcctt ctggacagga gcagagatac  
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<212> DNA

<213> Homo sapiens

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agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaagtg aagcccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggt 300

gcgacgtggg gtcggactgg cgttcctcc gcgggtacca ccagtacgc  
tacgacgga 360

aggattacat gcgctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcagctc 420

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gcctacctgg 480

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acgtgcagc 540

gcacggacgc ccccaaacg catatgactc accacgtgt ctctgacct  
gaagccaccc 600

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cagcgggatg 660

gggaggacca gaccaggac acagagctcg tggagaccag gcctgcaggg  
gatggaacct 720

tccagaagtg ggcgctgtg gtggtgcctt ctggacagga gcagagatac  
acctgccatg 780

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822

<210> 17

<211> 822

<212> DNA

<213> Homo sapiens

<400> 17

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agcgacgcg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggt 300

gcgagctggg gtcggactgg cgttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcgagc  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacggacgc ccccaaaacg catatgactc accacgctgt ctctgaccat  
gaagccaccc 600

tgagggtgctg ggccctgagc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gggaggacca gaccaggac acggagctcg tggagaccag gctgcaggg  
gatggaacct 720

tccagaagtg ggggctgtg gtggtgcctt ctggacagga gcagagatac  
acctgccatg 780

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822

<210> 18

<211> 822

<212> DNA

<213> Homo sapiens

<400> 18

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agcgacgccg 120

cgagccggag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cctccaggag  
atgtatggct 300

gcgacgtggg gtcggactgg cgttcctgc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat gcgccgaaa gaggacctgc gctcttgac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacggacgc ccccaaaacg catatgactc accacgctgt ctctgaccat  
gaagccaccc 600

tgaggtgctg gggccctgagc ttctaccctg cggagatcac actgaacctg  
cagcgggatg 660

gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720

tccagaagtg ggcgcctgtg gtggcgctt ctggacagga gcagagatac  
acctgccatg 780

tgcagcatga gggtttgccc aagcccctca ccctgagatg gg  
822

<210> 19

<211> 897

<212> DNA

<213> Homo sapiens

<400> 19

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ccggccccgc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcg ctactacaac cagagcgagg ccggttctca  
caccgtcag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgctggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcggccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggcccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggaggga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

gggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 20

<211> 897

<212> DNA

<213> Homo sapiens

<400> 20

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cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300



gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

atgatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcacccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggcccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccacg gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtggggcggt gtggtgtgac cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 21

<211> 897

<212> DNA

<213> Homo sapiens

<400> 21

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cagacctggg cgggctctca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagccg gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccctccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tgcgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagtg 540

agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcacgga cgcggccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 22

<211> 897

<212> DNA

<213> Homo sapiens

<400> 22

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ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcac cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaa 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgagggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 23  
<211> 897  
<212> DNA

<213> Homo sapiens

<400> 23

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ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtgtg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccagc gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 24  
<211> 550  
<212> DNA  
<213> Homo sapiens

<400> 24  
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gagccccgct tcatcgcagt gggctacgtg gacgacacgc agttcgtgcg  
gttcgacagc 120

gacgccgcga gccggaggat ggagccgcgg gcgccgtgga tagagcagga  
gggtccggag 180

tattgggacg gggagacacg gaatgtgaag gccactcac agactcaccg  
agtggacctg 240

gggaccctgc gcggctacta caaccagagc gaggccggtt ctcacaccct  
ccagaggatg 300

tatggctgcg acgtggggtc ggactggcgc ttcctgcgcg ggtaccacca  
gtacgcctac 360

gacggcaaagg attacatcgc cctgaaagag gacctgcgct cttggaccgc  
ggcggacatg 420

gcagctcaga ccaccaagca caagtgggag gcggcccatg tggcgaggca  
gtggagagcc 480

tacctggagg gcacgtgcgt ggagtggctc cgcagatacc tggagaacgg  
gaaggagacg 540

ctgcagcgca  
550

<210> 25  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 25  
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 gccctgacc 60

cagacctggg cgggctctca ctccatgagg tattttctca catccgtgtc  
 ccggcccggc 120

cgcggggagc cccgcttcac cgcagtgggc tacgtggacg acacgcagtt  
 cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
 gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
 tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
 caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
 ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
 gaccgcggcg 480

gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc  
 ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
 gaacgggaag 600

gagacgtcgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
 tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
 cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
 caggcctgaa 780

ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaca  
 ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag  
 atgggag 897

<210> 26  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 26  
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ggccctgacc 60  
  
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ccggccccggc 120  
  
cgcgggggagc cccgcttcat cgcagtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180  
  
gacagcgagc ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggagggt 240  
  
ccggagtatt gggacgggga gacacgaaa gtgaaggccc actcacagac  
tcaccgagtg 300  
  
gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360  
  
aggatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420  
  
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480  
  
gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540  
  
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgtcgc agcgcacgga cggcccaaaa acgcatatga ctaccacgc  
tgtctctgac 660  
  
catgaagcca ccctgaggtg ctgggcccctg agcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
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<210> 27

<211> 897

<212> DNA

<213> Homo sapiens

<400> 27

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ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagat  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gctacgacg gcaaggatta catgcacctg aaagaggacc tgcgtctctg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcggccaaa acgcatatga ctcaccacgc  
tgtctctgac 660



catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
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<210> 28

<211> 897

<212> DNA

<213> Homo sapiens

<400> 28

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cagacctggg cgggctctca ctccatgag tatttcttca catccgtgtc  
ccgccccggc 120

cgcggggagc ccgccttcac cgcagtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtgtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag  
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<210> 29

<211> 897

<212> DNA

<213> Homo sapiens

<400> 29

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cagacctggg cgggtcttca ctccatgag tatttcttca catccgtgc  
ccggcccggc 120

cgcggggagc ccgccttcat cgcagtgggc tacgtggagc acacgcagtt  
cgtcgggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagagt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtcag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgaggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcggccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggcccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggaggga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

gggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
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<210> 30

<211> 892

<212> DNA

<213> Homo sapiens

<400> 30

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tgaccagac 60

ctgggggggc tctcactcca tgaggatattt ctacacctcc gtgtcccggc  
ccggccgcg 120

ggagccccgc ttcatcgagc tgggctacgt ggagcagacg cagttcgtgc  
ggttcgacag 180

cgacgcgcg agccggagga tggagccgcg ggcgccgtgg atagagcagg  
agggtccgga 240

gtattgggac ggggagacac ggaaagtga ggccactca cagactcacc  
gagtggacct 300

ggggaccctg cgcggctact acaaccagag cgaggccggt tctcacaccc  
 tccagaggat 360  
  
 gtatggctgc gacgtggggg cggactggcg cttcctgcgc ggggtaccacc  
 agtacgccta 420  
  
 cgacggcaag gattacatcg ccctgaaaga ggacctgcgc tcttggaccg  
 cgcgcggacat 480  
  
 ggcagctcag accaccaagc acaagtggga ggcggcccat gtggcggagc  
 agttgagagc 540  
  
 ctacctggag ggcacgtgcg tggagtggct ccgcagatac ctggagaacg  
 ggaaggagac 600  
  
 gctgcagcgc acggacgccc ccaaaacgca tatgactcac cacgctgtct  
 ctgacctga 660  
  
 agccaccctg aggtgctggg ccctgagctt ctaccctgcg gagatcacac  
 tgacctggca 720  
  
 gcgggatggg gaggaccaga ccagagacac ggagctcgtg gagaccaggc  
 ctgcagggga 780  
  
 tggaaccttc cagaagtggg cggctgtggt ggtgccttct ggacaggagc  
 agagatacac 840  
  
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<210> 31  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 31  
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 ggccctgacc 60  
  
 cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgtc  
 ccggcccggc 120  
  
 cgcggggagc cccgcttcat cgcagtgggc tacgtggagc acacgcagtt  
 cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggaggggcga gtgcgtggag tggctccgca gatacctgga  
gaacggggaag 600

gagacgtcgc agcgcacgga cgcggccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 32

<211> 897

<212> DNA

<213> Homo sapiens

<400> 32

atggccgtca tggctccccg aacctcgtc ctgtactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tattttctca catccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcac cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccctccag 360

atgatgtttg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaaq 600

gagacgctgc agcgcacgga cgcccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag  
atgggag 897

<210> 33  
<211> 781  
<212> DNA

<213> Homo sapiens

<400> 33

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ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tattttctca catccgtgtc  
ccggccccgc 120

cgcgggggag cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccctccag 360

atgatgtttg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcgcacaaa acgcatatga ctccaccgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

g

781

<210> 34  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 34  
atggccgtca tggcgccccg aaccctcgtc ctgtactctt cgggggctct  
ggcctgacc 60

cagacctggg cggtctctca ctccatgagg tatttcttca catccgtgtc  
ccggccccggc 120

cgcggggagc cccgcttcat cgcatgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtgtg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacaaggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtgtc agcgcacgga cggccccaaa acgcatatga ctaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggcccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780



ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 35

<211> 546

<212> DNA

<213> Homo sapiens

<400> 35

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ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgcgc 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggccact cacagactca ccgagtggac  
ctggggagacc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg

546

<210> 36

<211> 546

<212> DNA  
<213> Homo sapiens

<400> 36  
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ggggagcccc 60  
  
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180  
  
acggggagac acggaatgtg aaggcccact cacagactca ccgagtggac  
ctggggacc 240  
  
tgcgcggtta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300  
  
gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcagctc 420  
  
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcacgg  
546

<210> 37  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 37  
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ggggagcccc 60  
  
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaacgtg aaggccact cacagactca ccgagtggac  
ctggggagacc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgttctctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat gcgacctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcagctc 420

agaccaccaaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 38

<211> 897

<212> DNA

<213> Homo sapiens

<400> 38

atggccgtca tggcgccccc aacctcgtc ctgtactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggaca acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtag 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcgcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcacgga cgcggccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 39

<211> 897

<212> DNA

<213> Homo sapiens

<400> 39

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtctttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagtgg 540

agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcggccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtggggcggt gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 40

<211> 546

<212> DNA

<213> Homo sapiens

<400> 40

gctctcactc catgaggtat ttcttcacat ccgtgtcccc gcccgccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aagggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgttcctcc gcgggtacca ccagtacgcc  
tacgacgca 360

aggattacat gcgcctgaac gaggacctgc gctcttgac cgcgcgcgac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 41

<211> 546

<212> DNA

<213> Homo sapiens

<400> 41

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gggagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aagggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgggac  
atggcagctc 420

agaccaccaa gcacaagtgg gagacggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgctgcagc 540

gcacgg  
546

<210> 42

<211> 891

<212> DNA

<213> Homo sapiens

<400> 42

gtcatggcgc cccgaaccct cgtcctgcta ctctcgggg ctctggccct  
gaccagacc 60

tgggcgggct ctcaactccat gaggtatttc ttcacatccg tgtcccggcc  
cggcgcggg 120

gagccccgct tcatcgcagt gggctacgtg gacgacacgc agttcgtgcg  
gttcgacagc 180

gacgccgcga gccagaggat ggagccgcgg gcgccgtgga tagagcagga  
gggtccggag 240

tattgggacg gggagacacg gaaagtgaag gccactcac agactaccg  
agtggacctg 300

gggacctgc gcggctacta caaccagacg gaggccggtt ctcacacctg  
ccagaggatg 360

tatggctgcg acgtggggtc ggactggcgc ttcctccgcg ggtaccacca  
gtacgcctac 420

gacggcaagg attacatcgc cctgaaagag gacctgcgct cttggaccgc  
ggcggacatg 480

gcagctcaga ccaccaagca caagtgggag gcggcccatg aggcggagca  
gttgagagcc 540

tacctggagg gcacgtgcgt ggagtggctc cgcagatacc tggagaacgg  
gaaggagacg 600

ctgcagcgca cggacgcccc caaaacgcat atgactcacc acgctgtctc  
tgaccatgaa 660

gccaccctga ggtgctgggc cctgagcttc taccctgcgg agatcacact  
gacctggcag 720

cgggatgggg aggaccagac ccaggacacg gagctcgtgg agaccaggcc  
tgcaggggat 780

ggaaccttcc agaagtgggc ggctgtggtg gtgccttctg gacaggagca  
gagatacacc 840

tgccatgtgc agcatgaggg ttgcccgaag cccctcacc tgagatggga g  
891

<210> 43

<211> 546

<212> DNA

<213> Homo sapiens

<400> 43

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ggggagcccc 60

gcttcacatc agtgggctac gtggacgaca cgcagtctgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaaaagt aaggcccaact cacagactca ccgagtggac  
ctggggagacc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatgct 300



gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgcacctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atcgggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 44

<211> 546

<212> DNA

<213> Homo sapiens

<400> 44

gctctcactc catgaggtat ttctacacct ccgtgtcccg gcccgggcgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagagtccg  
gagtattggg 180

acggggagac acggaaaagtg aaggcccaact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgcacctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 45  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 45  
gctctcactc catgaggat ttcttcacat ccgtgtccc gcccggccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagtctcg gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggcaagtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacgca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 46

<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 46  
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ggccctgacc 60  
  
cagacctggg cgggctctca gtccatgagg tatttcttca catccgtgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180  
  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240  
  
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300  
  
gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360  
  
aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420  
  
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480  
  
gacatggcag ctccagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540  
  
agagcctacc tggagggcac gtgcgtggag tggtctccga gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660  
  
catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780  
  
ggggatggaa ccttccagaa gtgggcggct gtggtgtgtc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 47

<211> 546

<212> DNA

<213> Homo sapiens

<400> 47

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agcgacgccg 120

ggagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgttcctcc gcgggtacca ccagtacgc  
tacgacggca 360

aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg

546

<210> 48

<211> 897

<212> DNA

<213> Homo sapiens

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 ccggcccggc 120

cgcggggagc cccgcttcac cgcagtgggc tacgtggagc acacgcagtt  
 cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
 gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
 tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
 caccgtccag 360

aggatgtctg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
 ccaccagtac 420

gcctacgacg gcaaggatta catgcacctg aaagaggacc tgcgctcttg  
 gaccgcgcgc 480

gacatggcag ctccagaccac caagcacaag tgggaggcgg cccatgtggc  
 ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
 gaacggggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
 tgtctctgac 660

catgaagcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
 cacactgacc 720

tggcagcggg atggggagga ccagaccagc gacacggagc tcgtggagac  
 caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
 ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
 atgggag 897

<210> 49  
<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 49  
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ggggagcccc 60  
  
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agcgacgcgc 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180  
  
acggggagac acggaaagtg aaggcccagt cacagactca ccgagtggac  
ctggggaccc 240  
  
tgcgcggtta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300  
  
gcgacgtggg gtcggactgg cgtctcctcc gcggttacca ccagtacgcc  
tacgacgca 360  
  
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgggac  
atggcagctc 420  
  
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcacggacgc ccccaaaacg catatgactc accacgctgt ctctgaccat  
gaagccaccc 600  
  
tgagggtgtg ggccttgacg ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660  
  
gggaggacca gaccaggac acggagctcg tggagaccag gctgcaggg  
gatggaacct 720  
  
tccagaagtg ggcggtgtg gtgggtgcctt ctggacagga gcagagatac  
acctgccatg 780

tgcagcatga gggtttgccc aagccctca ccctgagatg gg  
822

<210> 50  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 50  
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ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagtctcg gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 51  
<211> 546  
<212> DNA  
<213> Homo sapiens

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 ggggagcccc 60  
  
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 agcgacgcgc 120  
  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
 gagtattggg 180  
  
 acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
 ctggggaccc 240  
  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
 atgtatggct 300  
  
 gcgacgtggg gtcggactgg cgttcctcc gcgggtacca ccagtacgcc  
 tacgacgca 360  
  
 aggattacat gcgcctgaaa gaggacctgc gctcttgac cgcggcggac  
 atggcagctc 420  
  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
 gcctacctgg 480  
  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
 acgctgcagc 540  
  
 gcacgg  
 546

<210> 52  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 52  
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 ggggagcccc 60  
  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
 agcgacgcgc 120



cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acggggagac acggaaagtg aagggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgttccctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat gcgcctgaaa gaggacctgc gctcttgac gcggcgggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
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gcacgg  
546

<210> 53

<211> 546

<212> DNA

<213> Homo sapiens

<400> 53

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gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acggggagac acggaaagtg aagggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gagacggccc atgaggcgga gcagcagaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cggsaaggag  
acgctgcagg 540

gcacgg  
546

<210> 54  
<211> 546  
<212> DNA  
<213> Homo sapiens

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ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca gcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccaggag  
atgtttggct 300

gcgacgtggg gtcggacggg cgttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac  
atggcgctc 420

agatcaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 55  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 55  
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ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgcgc 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 56  
<211> 546

<212> DNA  
<213> Homo sapiens

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ggggagcccc 60  
  
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180  
  
acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
ctggggacc 240  
  
tgcgcggtta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300  
  
gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca gcagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgggac  
atggcagctc 420  
  
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcacgg  
546

<210> 57  
<211> 546  
<212> DNA  
<213> Homo sapiens

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ggggagcccc 60  
  
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agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggccact cacagactca ccgagtggac  
ctggggagacc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgttcctcc gcgggtacca ccagtacgcc  
tacgacgca 360

aggattacat gcgctgaaa gaggacctgc gctcttgac gcggcgaggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 58

<211> 546

<212> DNA

<213> Homo sapiens

<400> 58

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ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagtctgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggccact cacagactca ccgagtggac  
ctggggagacc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccttgaaa gaggacctgc gctcttgga cgcggcggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 59

<211> 546

<212> DNA

<213> Homo sapiens

<400> 59

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ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagtctcg gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

accaggagac acggaaagtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcgcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccttgaaa gaggacctgc gctcttgga cgcggcggac  
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agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

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<211> 619  
<212> DNA  
<213> Homo sapiens

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ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggt 240

ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgcagt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggtccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgg  
619

<210> 61  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 61  
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ggggagcccc 60

gcttcacatgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccggag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccact cacagagtca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cctccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgtttcctgc gcgggtacca ccagtacgcc  
tacgacgca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 62  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 62



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ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagag agggaaagtg aaggccact cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgccgc  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctaccctg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 63

<211> 546

<212> DNA

<213> Homo sapiens

<400> 63

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ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acggggagac acggaaagtg aagggccact cacagactca ccgagtggac  
ctggggacccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgagc cgcgcgggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagcggaga  
gcctacctgg 480

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gcacgg  
546

<210> 64

<211> 546

<212> DNA

<213> Homo sapiens

<400> 64

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ggggagcccc 60

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agcgacgcgc 120

cgagccagag gatggagccg cgggcgcctg ggatagagca ggaggggccg  
gagtattggg 180

acggggagac acggaaagtg aagggccact cacagactca ccgagtggac  
ctggggacccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
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gcacgg  
546

<210> 65

<211> 546

<212> DNA

<213> Homo sapiens

<400> 65

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ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgcgg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 66  
<211> 546  
<212> DNA  
<213> Homo sapiens

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ggggagcccc 60  
  
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agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180  
  
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240  
  
tgcgcggtta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatgctt 300  
  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtatga acagcacgcc  
tacgacggca 360  
  
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgggac  
atggcagctc 420  
  
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgctgcagc 540  
  
gcacgg  
546

<210> 67  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 67  
 gctctcactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
 ggggagcccc 60  
  
 gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
 agcgacgccg 120  
  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
 gagtattggg 180  
  
 acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
 ctggggaccc 240  
  
 tgcgcggtta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
 atgtatggt 300  
  
 gcgacgtggg gtcggactgg cgttcctcc gcgggtacca ccagtacgcc  
 tacgacggca 360  
  
 aggattacat gcacctgaaa gaggacctgc gctcttgac cgcggcggac  
 atggcagctc 420  
  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagcagaga  
 gcctacctgg 480  
  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
 acgctgcagc 540  
  
 gcacgg  
 546

<210> 68  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 68  
 gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
 ggggagcccc 60  
  
 gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
 agcgacgccg 120  
  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
 gagtattggg 180

accggaacac acggaatgtg aaggccact cacagactca ccgagtggac  
ctgggggaccc 240

tgcgcgggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgggac  
atggcagctc 420

agaccaccaa gcacaagtgg gagggggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcactgg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 69

<211> 895

<212> DNA

<213> Homo sapiens

<400> 69

atggccgtca tggcgcccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgc  
ccggcccggc 120

cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggt 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctccagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcgcacaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggcccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtggggcggc gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atggg 895

<210> 70

<211> 897

<212> DNA

<213> Homo sapiens

<400> 70

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tatttctaca cctccgtgtc  
ccgccccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggtttctca  
caccctccag 360

atgatgtatg gctgcgcagt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 71

<211> 546

<212> DNA

<213> Homo sapiens

<400> 71

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120



cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
ctgggggacc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cctccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgttcctcc gcgggtacca ccagtacgcc  
tacgacgca 360

aggattacat gcgctgaaa gaggacctgc gctcttgac gcggcgaggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 72

<211> 822

<212> DNA

<213> Homo sapiens

<400> 72

gctctcactc catgaggat ttcttcacat ccgtgtcccg gcccggccgc  
gaggagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagtctgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
ctgggggacc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcggg gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacggacgc ccccaaaacg catatgactc accacgctgt ctctgacct  
gaagccaccc 600

tgaggtgctg ggccctgagc ttctacctg cggagatcac actgacctgg  
cagcgggatg 660

gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720

tccagaagtg ggcggtgtg gtggtgcctt ctggacagga gcagagatac  
acctgccatg 780

tgcagcatga gggtttgccc aagcccctca ccctgagatg gg  
822

<210> 73

<211> 546

<212> DNA

<213> Homo sapiens

<400> 73

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
gggagacccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggccact cacagactca ccgagtgga  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgggac  
atggcagctc 420

agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 74

<211> 897

<212> DNA

<213> Homo sapiens

<400> 74

atggccgtca tggcgccccc aaccctctc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttctca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcac cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcagagc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgaggc  
ggagcagttg 540

agagcctacc tggatggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgagggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggaggga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

gggatggaa ccttcagaa gtgggcggct gtggtgtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 75

<211> 546

<212> DNA

<213> Homo sapiens

<400> 75

gctcccactc catgagggtat ttcttcacat ccgtgtcccg gcccgccgcg  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagtctgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgcctgaac gaggacctgc gctcttgac cgcgcgggac  
atggcggtc 420

agatcacaa gcgcaagtgg gaggcggccc atgaggcgga gcagctgaga  
gcctacctgg 480

atggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 76

<211> 546

<212> DNA

<213> Homo sapiens

<400> 76

gctccactc catgaggtat ttcttcacat ccgtgtcccg gcccgggcgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagtctgt gcggttcgac  
agcgacggc 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcgcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggt 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgcctgaac gaggacctgc gctcttgac cgcgcgggac  
atggcggtc 420

agatcacaa gcgcaagtgg gaggcggccc atgaggcgga gcagttgaga  
gcctacctgg 480

atggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 77  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 77  
atggccgtca tggcgccccc aacctcctc ctgtactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcgagac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc  
ggagcagcag 540

agagcctacc tggatggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcacgga ccccccaag acacatatga cccaccacc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

gggatggaa ctttcagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgaggggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 78

<211> 897

<212> DNA

<213> Homo sapiens

<400> 78

atggccgtca tggcgccccg aacctcctc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cggtctcca ctccatgagg tatttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccgcgagac 420

gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgaggc  
ggagcagttg 540

agagcctacc tggatggcac gtgctggag tggctccgca gatacctgga  
gaaccggaag 600

gagacgtgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggaggga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 79

<211> 858

<212> DNA

<213> Homo sapiens

<400> 79

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aggtatttct 60

tcacatccgt gtcccggccc ggccgcgggg agccccgctt catcgccgtg  
ggctacgtgg 120

acgacacgca gttcgtgcgg ttcgacagcg acgccgcgag ccagaggatg  
gagccgcggg 180

cgccgtggat agagcaggag gggccggagt attgggacca ggagacacgg  
aatgtgaagg 240

ccagctcaca gactgaccga gtggacctgg ggacctgcg cggctactac  
aaccagagcg 300

aggccggttc tcacaccatc cagataatgt atggctgcga cgtggggctcg  
gacgggcgtc 360

tcctccgcgg gtaccggcag gacgcctacg acggcaagga ttacatcgcc  
ctgaacgagg 420



acctgcgctc ttggaccgcg gcggacatgg cggctcagat caccaagcgc  
aagtgggagg 480

cgggcccatga ggcggagcag ttgagagcct acctggaggg cactgtcgtg  
gagtggctcc 540

gcagatacct ggagaacggg aaggagacgc tgcagcgcac ggaccccccc  
aagacacata 600

tgaccacca ccccatctct gaccatgagg ccaccctgag gtgctggggc  
ctgggcttct 660

acctgcgga gatcacactg acctggcagc gggatgggga ggaccagacc  
caggacacgg 720

agctcgtgga gaccaggcct gcaggggatg gaaccttcca gaagtgggcg  
gctgtggtgg 780

tgcttcttgg agaggagcag agatacacct gccatgtgca gcatgagggt  
ctggccaagc 840

ccctcaccct gagatggg  
858

<210> 80

<211> 546

<212> DNA

<213> Homo sapiens

<400> 80

gctcccactc catgagggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagtctgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggt 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgcctgaac gaggacctgc gctcttgac cgcgcgggac  
atggcggtc 420

agatcacaa gcgcaagtgg gaggcggccc atgaggcgga gcagttgaga  
gcctacctgg 480

atgccacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 81

<211> 546

<212> DNA

<213> Homo sapiens

<400> 81

gctccactc catgaggtat ttcttcacat ccgtgtcccg gcccgggcgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacggc 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcgcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggt 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgcctgaac gaggacctgc gctcttgac cgcgcgggac  
atggcggtc 420

agatcacaa gcgcaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

atggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 82  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 82  
gctccactc catgaggat ttcttcacat ccgtgtccc gcccggccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagtctcg gcggttcgc  
agcgacgcc 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggccact cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctgc gctettggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgaggcgga gcagttgaga  
gcctacctgg 480

atggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 83

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 83  
gctccactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccgat cacagactca ccgagtgga  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggtc 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgga cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcgcccc atgaggcgga gcagttgaga  
gcctacctgg 480

atggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 84  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 84  
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ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggacc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgac cgcgcgggac  
atggcggtc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 85

<211> 897

<212> DNA

<213> Homo sapiens

<400> 85

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ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccgcc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtctttg  
gaccgcggcg 480

gacatggcag ctcagatcac caagcgcaag tgggaggcgg cccatgcggc  
ggagcagcag 540

agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggaggga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 86

<211> 822

<212> DNA

<213> Homo sapiens

<400> 86

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ggggagcccc 60

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agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggccagtg cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcaggagcg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcagac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcgcccc atgcggcgga gcagcagaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacggaccc cccaagaca catatgacct accaccccat ctctgacct  
gaggccacct 600

tgaggtgctg ggccctgggc ttctacctg cgagatcac actgacctgg  
cagcgggatg 660

gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720

tccagaagtg ggcggtgtg gtggtgcctt ctggagagga gcagagatac  
acctgccatg 780

tgcagcatga gggctgccc aagccctca ccctgagatg gg  
822

<210> 87

<211> 895

<212> DNA

<213> Homo sapiens

<400> 87

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ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcgggaaag cccgcttcac cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagatcac caagcgcaag tgggaggcgg cccatgcggc  
ggagcagcag 540

agagcctacc tggaggggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaaq 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atggg 895

<210> 88  
<211> 546  
<212> DNA



<213> Homo sapiens

<400> 88

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ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagtctgt gcggttcgac  
agcgacgcgc 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggccagct cacagactga ccgagtggac  
ctggggacc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggccc gtgaggcgga gcagcagaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 89

<211> 897

<212> DNA

<213> Homo sapiens

<400> 89

atggccgtca tggcgccccg aaccctctc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgag tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcac cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccggcagagc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagatcac caagcgcaag tgggaggcgg cccatgcggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 90

<211> 897

<212> DNA

<213> Homo sapiens

<400> 90

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ccggcccggc	120			
cgcggggagc	cccgttcat	cgcctgggc	tacgtggagc	acacgcagtt
cgtgcgttc	180			
gacagcgacg	ccgcgagcca	gaggatggag	ccgcgggcgc	cgtggataga
gcaggagggg	240			
ccggagtatt	gggaccagga	gacacggaat	gtgaaggccc	agtcacagac
tgaccgagtg	300			
gacctgggga	ccctgcgcgg	ctactacaac	cagagcgagg	acggttctca
caccatccag	360			
ataatgtatg	gctgcgacgt	ggggccggac	gggcgcttcc	tccgcgggta
ccggcaggac	420			
gcctacgacg	gcaaggatta	catcgccctg	aacgaggacc	tgcgtctctg
gaccgcggcg	480			
gacatggcag	ctcagatcac	cgagcgcaag	tgggaggcgg	cccatgcggc
ggagcagcag	540			
agagcctacc	tggaggggccg	gtgcgtggag	tggctccgca	gatacctgga
gaacgggaag	600			
gagacgtctg	agcgcacgga	ccccccaag	acacatatga	cccaccaccc
catctctgac	660			
catgaggcca	ccctgaggtg	ctgggcccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggggagga	ccagaccag	gacacggagc	tcgtggagac
caggcctgca	780			
ggggatggaa	ccttccagaa	gtgggcggct	gtggtggtgc	cttctggaga
ggagcagaga	840			
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atgggag	897			

<210> 91  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 91  
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gggagcccc 60

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agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgcggcgga gcagcagaga  
gcctacctgg 480

agggccggtg cgtggagtggt ctcgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 92  
<211> 897  
<212> DNA  
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<400> 92  
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ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggccggac gggcgcttac tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagatcac caagcgcaag tgggaggcgg cccatgcggc  
ggagcagcag 540

agagcctacc tggaggggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaa 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 93  
<211> 546  
<212> DNA

<213> Homo sapiens

<400> 93

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gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgcgc 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggccagc cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcgcccc atgaggcgga gcagcggaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cggsaaggag  
acgctgcagc 540

gcacgg  
546

<210> 94

<211> 546

<212> DNA

<213> Homo sapiens

<400> 94

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ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgcgc 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aagggccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgac cgcgcgggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggccc atcgggcgga gcagcagaga  
gcctacctgc 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
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gcacgg  
546

<210> 95

<211> 546

<212> DNA

<213> Homo sapiens

<400> 95

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agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aagggccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcggac  
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gcacgg  
546

<210> 96  
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<212> DNA  
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<400> 96  
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agcgacggcg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acctgcagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcggac  
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gcctacctgg 480



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acgctgcagc 540

gcacgg  
546

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<400> 97  
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gcgagccaga ggatggagcc gcgggcccgc tggatagagc aggaggggcc  
ggagtattgg 180

gaccaggaga cacggaatgt gaaggcccag tcacagactg accgagtgga  
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ctgcgcggct actacaacca gagcgaggcc ggttctcaca ccatccagat  
aatgtatggc 300

tgcgacgtgg ggccggacgg gcgcttcctc cgcgggtacc ggcaggacgc  
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aaggattaca tcgccctgaa cgaggacctg cgctcttgga ccgcggcgga  
catggcagct 420

cagatcacca agcgcaagtg ggaggcggcc catgcggcgg agcagcagag  
agcctacctg 480

gagggccggt gcgtggagtg gctccgcaga tacctggaga acgggaagga  
gacgctgcag 540

cgcacg  
546

<210> 98  
<211> 546

<212> DNA  
<213> Homo sapiens

<400> 98  
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ggggagcccc 60  
  
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agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240  
  
tgcgcggtta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300  
  
gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacgca 360  
  
aggattacat cgccctgaac gaggacctgc gctcttgga cgcggcggac  
atggcagctc 420  
  
agatcaccag gcgcaagtgg gaggcggccc atgcggcgga gcagcagaga  
gcctacctgg 480  
  
agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcacgg  
546

<210> 99  
<211> 573  
<212> DNA  
<213> Homo sapiens

<400> 99  
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tacacctcgg 60  
  
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gacgacacgc 120

agttcgtgcg gttcgacagc gacgccgcga gccagaggat ggagccgcgg  
gcgccgtgga 180

tagagcagga ggggccggag tattgggacc aggagacacg gaatgtgaag  
gccagtcac 240

agactgaccg agtggacctg gggaccctgc gcggctacta caaccagagc  
gaggacggtt 300

ctcacaccat ccagataatg tatggctgcg acgtggggcc ggacggggcg  
ttcctccgcg 360

ggtaccgcga ggacgcctac gacggcaagg attacatcgc cctgaacgag  
gacctgcgt 420

cttggaccgc ggcggacatg gcagctcaga tcaccaacgc caagtgggag  
gcggcccgtc 480

ggcgcgagca gcagagagcc tacctggagg gccggtgcgt ggagtggctc  
cgcagatacc 540

tggagaacgg gaaggagacg ctgcagcgca cgg  
573

<210> 100

<211> 897

<212> DNA

<213> Homo sapiens

<400> 100

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ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac  
tgaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccggttctca  
caccctccag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgtctg agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ctctgagatg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780

gggatggaa ccttcagaa gtgggcagct gtggtgttac cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 101

<211> 546

<212> DNA

<213> Homo sapiens

<400> 101

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ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgcgac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 102

<211> 546

<212> DNA

<213> Homo sapiens

<400> 102

gtccccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacatgc cgtgggctac gtggacgaca cgagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttgga cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 103

<211> 546

<212> DNA

<213> Homo sapiens

<400> 103

gctccactc catgaggtat ttctccacat ccgtgtcccg gcccgccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccc 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 104  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 104  
gctccactc catgaggtgt ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gttctcatcg cgtgggctac gtggacgaca cgagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat gcgcctgaaa gaggacctgc gctcttgac cgcggcggac  
atggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 105  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 105  
 atggccgtca tggcgccccc aaccctcgtc ctgtactct cgggggccct  
 ggcctgacc 60

cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc  
 ccggcccggc 120

cgcggggagc cccgcttcac cgccgtgggc tacgtggagc acacgcagtt  
 cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
 gcaggagggg 240

ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac  
 tgaccgagag 300

aacctgcgga tcgcgtccg ctactacaac gagagcgagg ccggttctca  
 caccctccag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
 ccaccagtac 420

gcctacgacg gcaaggatta catgcacctg aaagaggacc tgcgtcttg  
 gaccgcggcg 480

gacatggcgg ctccagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
 ggagcagttg 540

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
 gaacgggaag 600

gagacgtgc agcgcacgga ccccccaag acacatatga cccaccacc  
 catctctgac 660

catgaggcca ctctgagatg ctggggccctg ggcttctacc ctgcggagat  
 cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac  
 caggcctgca 780

ggggatggaa ccttcagaa gtgggcagct gtggtgttac cttctggaga  
 ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
 atgggag 897



<210> 106  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 106  
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ggccctgacc 60

cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcac cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac  
tgaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccggttctca  
caccctccag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccacc  
catctctgac 660

catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggcagct gtggtgttac cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 107

<211> 897

<212> DNA

<213> Homo sapiens

<400> 107

atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggccct  
ggccctgacc 60

cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc  
ccggccccgg 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgagc ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggacgagga gacaggaaa gtgaaggccc actcacagac  
tgaccgagag 300

aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca  
caccctcag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgagc gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgtgc agcgcacgga ccccccaag acacatatga cccaccacc  
catctctgac 660

catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcagct gtggtgttac cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgaggggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 108

<211> 546

<212> DNA

<213> Homo sapiens

<400> 108

gctccactc catgaggtat ttctccacat ccgtgtcccg gcccgccgc  
ggggagcccc 60

gcttcatcg cgtaggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgc  
tacgacgca 360

aggattacat gcgccgaaa gaggacctgc gctcttgac gcggcgccgac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtaggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 109  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 109  
atggcgcgtca tggcgcccccg aaccctcgtc ctgctactct cgggggcccct  
ggccctgacc 60

cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcgggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcagggagggg 240

ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac  
tgaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccggttctca  
caccctccag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ctctgagatg ctgggcccctg ggcttctacc ctgcagagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcagct gtggtgttac cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 110

<211> 546

<212> DNA

<213> Homo sapiens

<400> 110

gctccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgcgc 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttgct 300

gcgacgtggg gtcggacggg cgttcctcc gcgggtacca ccagtatgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcggcac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cggsaaggag  
acgctgcagc 540

gcacgg

546

<210> 111  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 111  
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ggccctgacc 60

cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcac cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac  
tgaccgagag 300

aactgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca  
caccctccag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccacc  
catctctgac 660

catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggcagct gtggtgttac cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 112

<211> 546

<212> DNA

<213> Homo sapiens

<400> 112

gctccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagtctcg gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacgca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcactg  
546

<210> 113

<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 113  
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ggccctgacc 60  
  
cagacctggg caggtccca ctccatgagg tatttctcca catccgtgtc  
ccggcccggc 120  
  
cgcgggggagc cccgcttcat cggcgtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180  
  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240  
  
ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac  
tgaccgagcg 300  
  
aacctgggga ccctgcgcgg ctactacaac cagagcgagg cgggttctca  
caccctccag 360  
  
atgatgtttg cctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420  
  
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480  
  
gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc  
ggagcagcag 540  
  
agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgtcgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660  
  
catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atgggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780  
  
ggggatggaa ccttccagaa gtgggcagct gtggtgttac cttctggaga  
ggagcagaga 840



tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 114  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 114  
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ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagag agggaaagtg aaggcccact cacagactga ccgagagaac  
ctcgggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttgct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgcctgaaa gaggacctgc gctcttgac cgcgcgggac  
atggcgctc 420

agatcaccca gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 115  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 115  
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 ggggagcccc 60  
  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
 agcgacgccg 120  
  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
 gagtattggg 180  
  
 acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
 ctgcggatcg 240  
  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
 atgtttggct 300  
  
 gcgacgtggg gtcggacggg cgttcctcc gcgggtacca ccagtacgcc  
 tacgacgca 360  
  
 aggattacat gcgcctgaaa gaggacctgc gctcttgac cgcggcggac  
 atgcggcctc 420  
  
 agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagtggaga  
 gcctacctgg 480  
  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
 acgctgcagc 540  
  
 gcacgg  
 546

<210> 116  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 116  
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 ggccctgacc 60  
  
 cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc  
 ccggccccgc 120

cgcggggagc cccgcttcac cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggacgagga gacagggaaa gtgaaggccc agtcacagac  
tgaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccggttctca  
caccctccag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc  
ggagcgacag 540

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgtgc agcgcacgga ccccccaag acacatatga cccaccacc  
catctctgac 660

catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggcagct gtggtgttac cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 117

<211> 897

<212> DNA

<213> Homo sapiens

<400> 117

atggccgtca tggcgccccg aaccctcgtc ctgtactctt cgggggcccct  
ggccctgacc 60

cagacctggg caggctccca atccatgagg tatttctcca catccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tgaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccggttctca  
caccctcag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ctctgagatg ctgggcccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcagct gtggtgttac cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgaggggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 118  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 118  
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gggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacgga 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggccggtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 119  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 119  
gctccactc catgaggtat ttctccacat ccgtgtcccg gcccgccgc  
gggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacgcca 360

aggattacat gcgccgaaa gaggacctgc gctcttgac cgcggcggac  
atggcgctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 120

<211> 546

<212> DNA

<213> Homo sapiens

<400> 120

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ggggagcccc 60

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agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcgctc 420

agatcaccaa gcgcaagtgg gaggcgcccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 121

<211> 546

<212> DNA

<213> Homo sapiens

<400> 121

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacatgc cgtgggctac gtggacgaca cgcagtctgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagag agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcgctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 122

<211> 546

<212> DNA

<213> Homo sapiens

<400> 122

gctccactc catgaggtat ttctccacat ccgtgtcccg gcccgggcgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aagggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggt 300

gcgacgtggg gtcggacggg cgttcctcc gcgggtaccg gcaggacgcc  
tacgacgca 360

aggattacat gcgcctgaaa gaggacctgc gctottggac cgcggcggac  
atggcggtc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546



<210> 123  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 123  
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ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagtctgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggcccaact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgaggcggg gcagttgaga  
gcctacctgg 480

atggcacgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 124  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 124  
gctccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aagggccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggacg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgttcctcc gcgggtacca ccagtacgcc  
tacgacgca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgggac  
atggcggtc 420

agatcaccaa gcgcaagtgg gaggcgccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 125

<211> 546

<212> DNA

<213> Homo sapiens

<400> 125

gctcccaatc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aagggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgggac  
atggcggtc 420

agatcaccaa gcgcaagtgg gaggcgcccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaagggag  
acgctgcagc 540

gcacgg  
546

<210> 126

<211> 546

<212> DNA

<213> Homo sapiens

<400> 126

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ggggagcccc 60

gcttcacgc cgtgggttac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgcg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggcccact cacagactga ccgagagaac  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgac cgcgcgggac  
atggcggtc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 127

<211> 897

<212> DNA

<213> Homo sapiens

<400> 127

atggccgtca tggcgccccc aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg caggctccca ctccatgagg tattttctcca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcggtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac  
tgaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccggttctca  
caccctcag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc  
ggagcagtgg 540

agagtctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcagct gtggtgttac cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 128

<211> 546

<212> DNA

<213> Homo sapiens

<400> 128

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ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagtctct gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggtcgc 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggtc 300

gcgagctggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat gcgcctgaaa gaggacctgc gctcttgagc cgcgggcgac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggactgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 129

<211> 546

<212> DNA

<213> Homo sapiens

<400> 129

gctccactc catgaggtat ttctccacat ccgtgtcccg gcccgggccg  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagtctcg gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccagt cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacgca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgggcgac  
atggcggtc 420

agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 130

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 130  
gctccactc catgaggtgt ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcg cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaaagtg aaggccact cacagactga ccgagagaac  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggt 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgggac  
atggcggtc 420

agatcaccaa gcgcaagtgg gaggcgccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 131  
<211> 599  
<212> DNA  
<213> Homo sapiens

<400> 131  
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caggctccca 60

ctccatgagg tattttctcca catccgtgtc ccggcccggc cgcggggagc  
cccgttcat 120

cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc gacagcgacg  
ccgcgagcca 180

gaggatggag ccgcggggcgc cgtggataga gcaggagggg ccggagtatt  
gggacgagga 240

gacagggaaa gtgaaggccc actcacagac tgaccgagag aacctgcgga  
tcgcgtccg 300

ctactacaac cagagcgagg ccggttctca caccctccag atgatgtttg  
gctgcgacgt 360

ggggtcggac gggcgttcc tccacgggta ccaccagtac gcctacgacg  
gcaaggatta 420

catgcacctg aaagaggacc tgcgctcttg gaccgcggcg gacatggcgg  
ctcagatcac 480

caagcgcaag tgggaggcgg cccatgtggc ggagcagcag agagcctacc  
tggaaggcac 540

gtgcgtggag gggctccgca gatacctgga gaacgggaag gagacgctgc  
agcgcacgg 599

<210> 132

<211> 619

<212> DNA

<213> Homo sapiens

<400> 132

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ggccctgacc 60

cagacctggg caggctccca ctccatgagg tattttctcca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggagggg 240



ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac  
tgaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccggttctca  
caccctccag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtctttg  
gaccgcggcg 480

gacagggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc  
ggagcgacag 540

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgg  
619

<210> 133

<211> 546

<212> DNA

<213> Homo sapiens

<400> 133

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ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagtctgt gcggttcgac  
agcgacgcg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggcccaact cacagactca ccgagtggac  
ctggggaccc 240

tcgcgcgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcgcgcgac  
atggcggtctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 134

<211> 546

<212> DNA

<213> Homo sapiens

<400> 134

gctccactc catgaggat ttctccacat ccgtgtcccg gcccgccgcg  
gggagcccc 60

gcttcatcg cgtgggctac gtggacgaca cgcagtctgt gcggttcgac  
agcgacgcg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac acggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcgcgcgac  
atggcggtctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 135  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 135  
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ggggagcccc 60  
  
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
acgaggagac agggaaagtg aaggccact cacagactca ccgagagaac  
ctgcgcatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300  
  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac  
atggcggctc 420  
  
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480  
  
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcacgg  
546

<210> 136  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 136  
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 ggggagcccc 60  
  
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 agcgacgccg 120  
  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
 gagtattggg 180  
  
 acgagcagac agggaaagtg aaggcccact cacagactga ccgagagaac  
 ctgcgcatcg 240  
  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
 atgtttgct 300  
  
 gcgacgtggg gtcggacggg cgttcctcc gcgggtacca ccagtacgcc  
 tacgacggca 360  
  
 aggattacat gcacctgaaa gaggacctgc gctcttgac cgcggcggac  
 atggcggtc 420  
  
 agataccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
 gcctacctgg 480  
  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
 acgctgcagc 540  
  
 gcacgg  
 546

<210> 137  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 137  
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 ggggagcccc 60  
  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
 agcgacgccg 120  
  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
 gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagagc  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgcgac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

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acgctgcagc 540

gcacgg  
546

<210> 138

<211> 822

<212> DNA

<213> Homo sapiens

<400> 138

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ggggagcccc 60

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agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagAAC  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacggacgc ccccaaacg catatgactc accacgctgt ctctgacct  
gaagccacc 600

tgagggtgtg ggcctgagc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720

tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac  
acctgccatg 780

tgcagcatga gggtttgccc aagccctca ccctgagatg gg  
822

<210> 139

<211> 546

<212> DNA

<213> Homo sapiens

<400> 139

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agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagattga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttgct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgcacctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 140

<211> 546

<212> DNA

<213> Homo sapiens

<400> 140

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ggggagcccc 60

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agcgacgccg 120

cgagccagag gatggagccg tgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggtc 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgcacctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 141  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 141  
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ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagtctcg gcggttcgac  
agcgacgccg 120

cgagccagag gatggagctg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacgca 360

aggattacat cgccctgaaa gaggacctgc gctettggac cgcgcgggac  
atggcggtc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 142



<211> 546  
<212> DNA  
<213> Homo sapiens

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ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaaagtg aaggcccaact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggt 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgggac  
atggcggtc 420

agatcaccaa gcgcaagtgg gaggcgcccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 143  
<211> 898  
<212> DNA  
<213> Homo sapiens

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ggccctgacc 60

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ccggcccggc 120

cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac  
tgaccgagag 300

agcctgcgga tcgcgctccg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggaggggccg gtgcgtggag tggctccgca gatacctgga  
bgaacgggaa 600

ggagacgctg cagcgcacgg acgcccccaa gacgcatatg actcaccacg  
ctgtctctga 660

ccatgaggcc accctgaggt gctggggccct gagcttctac cctgcggaga  
tcacactgac 720

ctggcagcgg gatggggagg accagaccca ggacacggag ctcgtggaga  
ccaggcctgc 780

aggggatggg accttccaga agtgggcgct tgtggtggtg ccttctggac  
aggagcagag 840

atacacctgc catgtgcagc atgagggtct gcccgaagccc ctcaccctga  
gatgggag 898

<210> 144

<211> 897

<212> DNA

<213> Homo sapiens

<400> 144

atggcccgta tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggccccggc 120

cgcgggggagc cccgcttcat cgccgtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgagc ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggaggggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagag 300

agcctgcgga tcgcgctccg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgagc gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggaggggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgagggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggaggga ccagaccagc gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtggggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggctctg cccaagcccc tcacctgag  
atgggag 897

<210> 145

<211> 546

<212> DNA

<213> Homo sapiens

<400> 145

gctccactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggccact cacagactga ccgagagagc  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcacgg

546

<210> 146

<211> 546

<212> DNA

<213> Homo sapiens

<400> 146  
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 ggggagcccc 60  
  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
 agcgacgccg 120  
  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
 gagtattggg 180  
  
 accggaacac acggaatgtg aaggcccact cacagactga ccgagagagc  
 ctgcggatcg 240  
  
 cgctccgcta ctacaaccag agcgaggacg gttctcacac catccagagg  
 atgtatggct 300  
  
 gcgacgtggg gccggacggg cgttcctcc gcgggtacca gcaggacgct  
 tacgacggca 360  
  
 aggattacat gcacctgaac gaggacctgc gctcttgac cgcggcggac  
 atggcggtc 420  
  
 agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagcagaga  
 gcctacctgg 480  
  
 agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
 acgctgcagc 540  
  
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 546

<210> 147  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 147  
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 ggcctgacc 60  
  
 cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
 ccggcccggc 120  
  
 cgcggggagc cccgcttcac cgccgtgggc tacgtggacg acacgcagtt  
 cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcgcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggaggggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtggggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 148

<211> 897

<212> DNA

<213> Homo sapiens

<400> 148

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccttgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcagaac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtg 540

agagcctacc tggaggggcg gtgcgtggag tggtctccga gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcacgga cgccccaaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccttgagggtg ctggggccctg agcttctacc ctgaggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccacg gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtggggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 149

<211> 897

<212> DNA  
<213> Homo sapiens

<400> 149  
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ggccctgacc 60  
  
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ccggcccggc 120  
  
cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180  
  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240  
  
ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac  
tcaccagagtg 300  
  
gacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360  
  
aggatgtatg gctgcgcagt ggggcccggc gggcgcttcc tccgcgggta  
ccagcagagc 420  
  
gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480  
  
gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540  
  
agagcctacc tggaggggcg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcacgga cgcgcccaag acgcatatga ctcaccacgc  
tgtctctgac 660  
  
catgaggcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780  
  
ggggatggga ccttcagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840



tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 150

<211> 897

<212> DNA

<213> Homo sapiens

<400> 150

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ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 151

<211> 897

<212> DNA

<213> Homo sapiens

<400> 151

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ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac  
tgaccgagag 300

aactggggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtg 540

agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcgcccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgagggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 152

<211> 546

<212> DNA

<213> Homo sapiens

<400> 152

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agcgacgcg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggtca ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgttcctcc gcgggtacca gcgggacgct  
tacgacgca 360

aggattacat gcgccgaac gaggacctgc gctcttgac cgcggcgga  
atggcgctc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 153  
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<212> DNA  
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<400> 153  
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ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catgcacctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctacagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggaggggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttcagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

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<210> 154

<211> 897

<212> DNA

<213> Homo sapiens

<400> 154

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cagacctggg cgggctcca ctccatgag tatttctaca cctccgtgtc  
ccgccccggc 120

cgcggggagc ccgcttcat cgccgtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggacggaa cacacggaat gtgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagcag 540

agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtgggcgtct gtggtgtgac cttctggaca  
ggagcagaga 840

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<210> 155

<211> 546

<212> DNA

<213> Homo sapiens

<400> 155

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agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccact cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgt  
tacgacgca 360

aggattacat cgccctgaac gaggacctgc gctcttgac cgcgcgggac  
atggcggtc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
gcctacctgg 480

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gcacgg  
546

<210> 156

<211> 546

<212> DNA

<213> Homo sapiens

<400> 156

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agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aagggccact cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcgcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgttcctcc gcgggtacca gcaggacgct  
tacgacgga 360

aggattacat gcgcctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcgctc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
gcctacctgg 480

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gcacgg  
546

<210> 157  
<211> 546  
<212> DNA  
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agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acggaatgtg aaggccact cacagactga ccgagcgaac  
ctggggagccc 240  
  
tgcgcgcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300  
  
gcgacgtggg gccggacggg cgttcctcc gcgggtacca gcaggacgct  
tacgacggca 360  
  
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atggcggctc 420  
  
agatcaccca gcgcaagtgg gagacggccc atgtggcggg gcagtggaga  
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acgtgcagc 540  
  
gcacgg  
546

<210> 158  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 158  
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ggggagcccc 60



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agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aagggccagt cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgttcctcc gcgggtacca gcaggacgct  
tacgacgca 360

aggattacat gcgcctgaac gaggacctgc gctcttgac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
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546

<210> 159

<211> 546

<212> DNA

<213> Homo sapiens

<400> 159

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gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aagggccact cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacggca 360

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atggcggtcc 420

agatcaccca gcgcaagtgg gagggcgccc atgaggcgga gcagtggaga  
gcctacctgg 480

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gcacgg  
546

<210> 160

<211> 897

<212> DNA

<213> Homo sapiens

<400> 160

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cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcac cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttg 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcagac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggg  
ggagcagtgg 540

agagcctacc tggaggggcg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

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cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtgggcgtct gtggtgtgac cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
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<210> 161

<211> 546

<212> DNA

<213> Homo sapiens

<400> 161

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cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acggaatgtg aaggcccaact cacagactga ccgagcgaac  
ctggggagacc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacggca 360

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atggcggtc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
gcctacctgg 480

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546

<210> 162

<211> 546

<212> DNA

<213> Homo sapiens

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agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggccact cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcgcta ctacaaccag agcgaggacg gtactcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacggca 360

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atggcggtc 420

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gcacgg  
546

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agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccact cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacgca 360

aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac  
atggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagtggaga  
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gcacgg  
546

<210> 164

<211> 897  
<212> DNA  
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ccggcccggc 120  
  
cgcgggggagc cccgcttcat cgccgtgggc tacgtggagc acacgcagtt  
cgtgcggttt 180  
  
gacagcgacg ccgcgagcca gaggatggag ccgcgggcac cgtggataga  
gcaggagggg 240  
  
ccggagtatt gggacctgca gacacggaat gtgaaggccc agtcacagac  
tgaccgagcg 300  
  
aacctgggga ccctgcgcgg ctactacaac cagagcgagg cgggttctca  
caccatccag 360  
  
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ccggcaggac 420  
  
gcctacgacg gcaaggatta catcgcttg aacgaggacc tgcgctcttg  
gaccgcggcg 480  
  
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gaacgggaag 600  
  
gagacgctgc agcgcacgga cgccccaaag acgcatatga ctcaccacgc  
tgtctctgac 660  
  
catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atgggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780  
  
ggggatggaa ccttccagaa gtgggcgtct gtggtgtgtc cttctggaca  
ggagcagaga 840

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<210> 165

<211> 897

<212> DNA

<213> Homo sapiens

<400> 165

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ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttt 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcac cgtggataga  
gcaggagggg 240

ccggagtatt gggacctgca gacacggaat gtgaaggccc agtcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcagagc 420

gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
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tgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
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<210> 166

<211> 897

<212> DNA

<213> Homo sapiens

<400> 166

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ccggcccggc 120

cgcggggagc cccgcttcat cgcggtgggc tacgtggagc acacgcagtt  
cgtgcggttt 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcac cgtggataga  
gcaggagggg 240

ccggagtatt gggacctgca gacacggaat gtgaaggccc agtcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600



gagacgtgc agcgcacgga cgcaccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
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<210> 167

<211> 546

<212> DNA

<213> Homo sapiens

<400> 167

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agcgacgccg 120

cgagccagag gatggagccg cgggcaccgt ggatagagca ggaggggccc  
gagtattggg 180

acctgcagac acggcatgtg aaggcccagt cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcgcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggt 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgcttgaac gaggacctgc gctcttgagc cgcgggcgac  
atggcggtct 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 168  
<211> 546  
<212> DNA  
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cgagccagag gatggagccg cgggcaccgt ggatagagca ggaggggccc  
gagtattggg 180

acctgcagac acggaatgtg aaggcccagt cacagactga ccgagcgaac  
ctggggaccc 240

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atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacgca 360

aggattacat cgccttgaac gaggacctgc gctcttgac cgcgcgggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc atgaggcgga gcagcagaga  
gcctacctgg 480

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acgctgcagc 540

gcacgg  
546

<210> 169

<211> 546  
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ggggagcccc 60  
  
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agcgacgccg 120  
  
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gagtattggg 180  
  
acctgcagac acggaatgtg aaggcccagt cacagactga ccgagcgaa  
ctggggaccc 240  
  
tgcgcgcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggt 300  
  
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tacgacgca 360  
  
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atggcggtc 420  
  
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acgtgcagc 540  
  
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546

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ggggagcccc 60

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agcgacgccg 120

cgagccagag gatggagccg cgggcaccgt ggatagagca ggaggggccc  
gagtattggg 180

acctgcagac acggaatgtg aaggcccagt cacagactga ccgagcgaac  
ctggggacc 240

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atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttgac cgcggcggac  
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gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 171

<211> 897

<212> DNA

<213> Homo sapiens

<400> 171

atggccgtca tggcgccccg aacctctctc ctgtactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctcca catccgtgtc  
ccggccggc 120

agtggagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagagg 240

cctgagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
tgaacagcac 420

gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg ccggttgggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggaggga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 172

<211> 887

<212> DNA

<213> Homo sapiens

<400> 172

atggccgtca tggcgccccg aacctcctc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgag tatttctcca catccgtgtc  
ccggcccggc 120

agtggagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagagc 240

cctgagtatt gggaccagga gacacggaat gtgaaggccc actcacagac  
tgaccgagag 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
tgaacagcac 420

gcaaggatta catcgccctg aacgaggacc tgcgctcttg gaccgcggcg  
gacatggcgg 480

ctcagatcac ccagcgcgaag tgggaggcgg cccgtcgggc ggagcagttg  
agagcctacc 540

tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag  
gagacgctgc 600

agcgacagga ccccccaag acacatatga cccaccaccc catctctgac  
catgaggcca 660

ccctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc  
tggcagcggg 720

atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca  
ggggatggaa 780

ccttcagaa gtgggcggct gtggtggtgc cttctggaga ggagcagaga  
tacacctgcc 840

atgtgcagca tgagggtctg cccaagcccc tcaccctgag atgggag  
887

<210> 173

<211> 767

<212> DNA

<213> Homo sapiens

<400> 173

ggctcccact ccatgaggta tttctccaca tccgtgtccc ggccccggcag  
tggagagccc 60

cgcttcatcg cagtgggcta cgtggacgac acgcagttcg tgcggttcga  
cagcgacgcc 120

gcgagccaga ggatggagcc gcggggcgccg tggatagagc aggagggggcc  
ggagtattgg 180

gaccaggaga cacggaatgt gaaggcccac tcacagactg accgagagaa  
cctggggacc 240

ctgcgcggct actacaacca gagcgaggcc ggttctcaca ccatccagat  
aatgtatggc 300

tgcgacgtgg ggtcggacgg gcgcttcctc cgcggggtatg aacagcacgc  
ctacgacggc 360

aaggattaca tcgccctgaa cgaggacctg cgctcttgga ccgcggcgga  
catggcggct 420

cagatcaccc agcgcaagtg ggaggcggcc cgtcgggcgg agcagttgag  
agcctacctg 480

gagggcacgt gcgtggagtg gctccgcaga tacctggaga acgggaagga  
gacgctgcag 540

cgcacggacc cccccaagac acatatgacc caccacccca tctctgacca  
tgaggccacc 600

ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg  
gcagcgggat 660

ggggaggacc agaccagga cacggagctc gtggagacca ggcctgcagg  
ggatggaacc 720

ttccagaagt gggcggctgt ggtggtgcct tctggagagg agcagag  
767

<210> 174

<211> 546

<212> DNA

<213> Homo sapiens

<400> 174

gctccactc catgaggtat ttctccacat ccgtgtcccg gcccggcagt  
ggagagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180

accaggagac acggaatgtg aaggccact cacagactga ccgagagaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggt 300

gcgacgtggg gtcggacggg cgttcctcc gcgggtatga acagcacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgac cgcgcgggac  
atggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 175

<211> 546

<212> DNA

<213> Homo sapiens

<400> 175

gctccactc catgaggtat ttctccacat ccgtgtcccg gcccggcagt  
ggagagcccc 60

gcttcacgc agtgggctac gtggacgacg cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180



accaggagac acggaatgtg aagggccact cacagactga ccgagagaaac  
ctgggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtatga acagcacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgagc cgcgcgggac  
atggcggtct 420

agatcaccca gcgcaagtgg gaggcgcccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 176

<211> 546

<212> DNA

<213> Homo sapiens

<400> 176

gtctccactc catgaggtat ttctccacat ccgtgtcccg gcccggcagt  
ggagagcccc 60

gcttcacatc agtgggctac gtggacgaca cgcagtctgt gcggttcgac  
agcgacgcgt 120

cgagccagag gatggagccg cgggcgcccgt ggatagagca ggagaggcct  
gagtattggg 180

acgaggagac agggaaagtg aagggccact cacagactga ccgagagaaac  
ctgggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtatga acagcacgcc  
tacgacggca 360

aggattacat cgcacctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtcgggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 177

<211> 897

<212> DNA

<213> Homo sapiens

<400> 177

atggccgtca tggcgccccg aaccctctc ctgtactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tatttctaca cctccgtgtc  
ccgccccggc 120

agtggagagc cccgcttcac cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagagg 240

cctgagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
tgaacagcac 420

gcctacgacg gcaaggatta catcgccttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagcgcg cccgttgggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

gggatggaa ccttccagaa gtggcggtgt gtggtgtgac cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 178

<211> 546

<212> DNA

<213> Homo sapiens

<400> 178

gtccccactc catgaggtat ttctccacat ccgtgtcccg gcccggcagt  
ggagagcccc 60

gcttcacatgc agtgggctac gtggacgaca cgcagtctgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180

accaggagac acggaatgtg aaggcccaact cacagactga ccgagagaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtatga acagcacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggaac cgcggcggac  
atggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 179

<211> 822

<212> DNA

<213> Homo sapiens

<400> 179

gctccactc catgaggtat ttctccacat ccgtgtcccg gcccggcagt  
ggagagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180

accaggagac acggaatgtg aagggccact cacagactga ccgagagaac  
ctggggaccc 240

tgcgcgcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgcatggct 300

gcgacgtggg gtcggacggg cgttcctcc gcgggtatga acagcacgcc  
tacgacgga 360

aggattacat gcgacctgaac gaggacctgc gctcttggaac cgcggcggac  
atggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtcgggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacggaccc cccaagaca catatgaccc accaccccat ctctgaccat  
gaggccaccc 600

tgaggtgctg ggccttgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720

tccagaagtg ggcgctgtg gtggtgcctt ctggagagga gcagagatac  
acctgccatg 780

tgcagcatga gggctctgcc aagcccctca ccctgagatg gg  
822

<210> 180

<211> 546

<212> DNA

<213> Homo sapiens

<400> 180

gctccactc catgaggtat ttctccacat ccgtgtcccg gcccggcagt  
ggagagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgcg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtatga acagcacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcgggcc gttgggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 181  
<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 181  
gctccactc catgaggat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagtctcg gcggttcgac  
agcgacgcg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180

accaggagac acggaatgtg aagggccact cacagactga ccgagagaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtatga acagcacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtcgggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggsaaggag  
acgtgcagc 540

gcacggaccc cccaagaca catatgacct accaccccat ctctgacct  
gagccacct 600

tgaggtgctg ggccctgggc ttctacctg cggagatcac actgacctgg  
cagcgggatg 660

gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720

tccagaagtg ggcggtctgtg gtggtgcctt ctggagagga gcagagatac  
acctgccatg 780

tgcagcatga gggctctgcc aagcccctca ccctgagatg gg  
822

<210> 182

<211> 897

<212> DNA

<213> Homo sapiens

<400> 182

atggccgtca tggcgccccg aaccctcctc ctgctactct tggggggcct  
ggccctgacc 60

cagacctggg cggtctccca ctccatgagg tatttcacca catccgtgtc  
ccgccccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagagg 240

cctgagtatt gggaccagga gacacggaat gtgaaggccc actcacagat  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgctcttg  
gaccgcgcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctc cccaagcccc tcacctgag  
atgggag 897

<210> 183

<211> 546

<212> DNA

<213> Homo sapiens

<400> 183

gctccactc catgaggtat ttcaccacat ccgtgtcccg gcccgccgcg  
gggagcccc 60

gcttcatcg cgtgggctac gtggacgaca cgcagtctcg gcggttcgac  
agcgacgcg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180

accaggagac acggaagtg aaggccact cacagattga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgttcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttgac cgcgcgggac  
atggcggtc 420

agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgtgcagc 540



gcacgg  
546

<210> 184  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 184  
gctccactc catgaggat ttcaccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagtctcg gcggttcgac  
agcgacgcg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180

accaggagac acggaatgtg aaggccact cacagattga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatgct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgct  
tacgacgca 360

aggattacat cgccctgaac gaggacctgc gctcttgac cgcgcgggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgctgcagc 540

gcacgg  
546

<210> 185  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 185  
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 ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttcacca catccgtgtc  
 ccggcccggc 120

cgcggggagc cccgcttcac cgccgtgggc tacgtggagc acacgcagtt  
 cgtgcggttc 180

gacagcgagc ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
 gcaggagagg 240

cctgagtatt gggaccagga gacacggaat gtgaaggccc actcacagat  
 tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
 caccatccag 360

ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
 ccgcgagagc 420

gcttacgagc gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
 gaccgcggcg 480

gacatggcgg ctcatgatcac ccagcgcaag tgggaggcgg cccgtgtggc  
 ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
 gaacgggaag 600

gagacgtcgc agcgcacgga ccccccaag acgcatatga ctcaccacgc  
 tgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
 cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
 caggcctgca 780

ggggatggaa ccttcagaa gtgggcgtct gtggtgtgtc cttctggaca  
 ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctc cccaagcccc tcaccctgag  
 atgggag 897

<210> 186  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 186  
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ggggagcccc 60

gcttcacgcg cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180

accaggagac acggaatgtg aaggcccact cacagattga ccgagtggac  
ctggggagccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgttcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttgac cgcgcgggac  
atggcggtc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 187  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 187  
gctcccactc catgaggtat ttcaccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180

accaggagac acggaatgtg aagcccact cacagattga ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgttcctcc gcgggtaccg gcaggacgcc  
tacgacgca 360

aggattacat cgccttgaac gaggacctgc gctettggac cgcgcgggac  
atggcggtct 420

agatcaccca gcgcaagtgg gaggcgggcc gtgtggcgga gcagttgaga  
gcctacctgg 480

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acgtgcagc 540

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<213> Homo sapiens

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gagtattggg 180

accaggagac acggaagtgt aagcccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttgac cgcggcggac  
atggcggtc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagttgaga  
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agcgacgcg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcgcatcg 240

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atgtatggct 300

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tacgacggca 360

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atggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
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gagtattggg 180

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ctggggaccc 240

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atgtatggct 300

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tacgacggca 360

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ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttt 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac  
tgaccgagag 300

agcttcgcca tcgcgtccg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

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ccagcaggac 420

gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
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gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggcgtct gtggtggtgc cttctggaca  
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ccggccccgg 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggagc acacgcagtt  
cgtgcggttt 180

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tgaccgagag 300

agcctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggta  
ccagcgagac 420

gcctacgagc gcaaggatta catcgcttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccatgtggc  
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gaacgggaag 600

gagacgtgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660



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cacactgacc 720

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ggggatggaa ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
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<213> Homo sapiens

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gagtattggg 180

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atgtatggct 300

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tacgacgca 360

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gagtattggg 180

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ctgcggatcg 240

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tacgacggca 360

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 cacactgacc 720

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ggggatggaa ccttcagaa gtgggcgtct gtggtggtgc cttctggaca  
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cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

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tacgacgca 360

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cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180

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<211> 897

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ccggcccgcc 120

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gacctgggga ccttcgcgcg ctactacaac cagagcgagg ccggttctca  
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cacactgacc 720

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<211> 897

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ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagat  
tgaccgagtg 300

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cacactgacc 720

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<212> DNA

<213> Homo sapiens

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gagtattggg 180

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ctggggacc 240

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gcgacgtggg gtcggacggg cgttcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

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<211> 546

<212> DNA

<213> Homo sapiens

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gagtattggg 180

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gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca gcaggacgcc  
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<211> 739

<212> DNA

<213> Homo sapiens

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agcgacgccg 120

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gagtattggg 180

accggaacac acggaatgtg aagggccact cacagattga ccgagtggac  
ctggggaccc 240

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gcgacgtggg gtcggacggg cgttcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

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gcacggaccc cccaagacg catatgactc accacgctgt ctctgaccat  
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<211> 897

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tgaccgagtg 300

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caccatccag 360

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ccagcaggac 420

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gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540

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catgaggcca ccctgagggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

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ggggatggaa ccttcagaa gtggggcgtct gtggtgtgtc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
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<211> 897

<212> DNA

<213> Homo sapiens

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ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
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ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccttcgcgcg ctactacaac cagagcgagg acggttctca  
caccatccag 360

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ccggcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
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gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
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gaacgggaag 600

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catgaggcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

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<210> 205

<211> 546

<212> DNA

<213> Homo sapiens

<400> 205

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agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcggttaccg gcaggacgct  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcgcgggac  
atggcggtcc 420

agatcaccca gcgcaagtgg gaggcggccc atgaggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
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<211> 546

<212> DNA

<213> Homo sapiens

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agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcaggagcgt gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgct  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgac cgcgcgaggac  
atggcggtc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagttgaga  
gcctacctgg 480

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<210> 207

<211> 546

<212> DNA

<213> Homo sapiens

<400> 207

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agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaaagtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcaggagcgt gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacggca 360

aggattacat ctccctgaac gaggacctgc gctcttgac cgcgcgaggac  
atggcggtc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
gcctacctgg 480

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546

<210> 208

<211> 897

<212> DNA

<213> Homo sapiens

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ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaagatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac  
tgaccgagcg 300

aactgggga cctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcttg  
gaccgcggcg 480

gacatggcag ctcagatcac caagcgcaag tgggaggcgg tccatgcggc  
ggagcagcgg 540

agagtctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggctg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 209

<211> 546

<212> DNA

<213> Homo sapiens

<400> 209

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agcgacgcg 120

cgagccagaa gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatatg aaggcccact cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggtca ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat gcgccgaac gaggacctgc gctcttgac cgcggcgga  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggtcc atgcggcgga gcagcggaga  
gcctacctgg 480



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acgctgcagc 540

gcacgg  
546

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ggcctgacc 60

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ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaagatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccctccag 360

atgatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccgcgaggac 420

gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctacagatcac caagcgcaag tgggaggcgg tccatgcggc  
ggagcagcgg 540

agagtctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggcggct gtggtgtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 211

<211> 546

<212> DNA

<213> Homo sapiens

<400> 211

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ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagtctgt gcggttcgac  
agcgacgcg 120

cgagccagaa gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatatg aaggccact cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat gcgcctgaac gaggacctgc gctcttgac cgcggcgagc  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggtcc atgcggcgga gcagcggaga  
gtctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 212  
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<212> DNA  
<213> Homo sapiens

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ggccctgacc 60

cagacctggg cggtctcca ctccatgagg tatttctaca cctccgtgtc  
ccggcccgcc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgagc ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggacctgca gacacggaat gtgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgagc gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctacagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggaggggcg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcacgga cgcccccaag acgcatatga ctaccacgc  
tgtctctgac 660

catgaggcca ccctgagggt ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 213

<211> 897

<212> DNA

<213> Homo sapiens

<400> 213

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cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtg 540

agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcgcccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

gggatggga ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 214

<211> 897

<212> DNA

<213> Homo sapiens

<400> 214

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cagacctggg cggtctccca ctccatgag tatttctaca cctccgtgtc  
ccggccccgc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgagc ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catgcacctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggaggggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccacg gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtggggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 215

<211> 546

<212> DNA

<213> Homo sapiens

<400> 215

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agcgacgcg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccaact cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgt  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcgcgccgac  
atggcggtctc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 216

<211> 546

<212> DNA

<213> Homo sapiens

<400> 216

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agcgacgcg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgttcctcc gcgggtacca gcaggacgt  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcgcgccgac  
atggcggtctc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

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ccggcccgcc 120

cgcgggggag cccgcttcat cgcgtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtctg agcgcacgga cgcggccaaa acgcatatga ctaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720



tggcagcggg atgggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggtggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 218

<211> 897

<212> DNA

<213> Homo sapiens

<400> 218

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ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
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gagacgctgc agcgcacgga cgcacccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

gggatggaa ccttccagaa gtgggtggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 219

<211> 897

<212> DNA

<213> Homo sapiens

<400> 219

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ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgagc ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gctacgacg gcaaggatta catgcacctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggcccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccacg gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggtggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
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<210> 220

<211> 897

<212> DNA

<213> Homo sapiens

<400> 220

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ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccgcgaggac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtgc agcgcacgga cgcgcccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

gggatggaa ccttccagaa gtgggtggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 221

<211> 546

<212> DNA

<213> Homo sapiens

<400> 221

gctctcactc catgaggtat ttctacactt ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcacgc cgtagggctac gtggacgaca cgcagtctct gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccaact cacagactga ccgagtggac  
ctggggagccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgggac  
atggcagctc 420

agaccaccaa gcacaagtgg gagggggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 222

<211> 546

<212> DNA

<213> Homo sapiens

<400> 222

gtccccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gttctcatcg cgtgggctac gtggacgaca cgcagtctgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccaact cacagattga ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 223

<211> 546

<212> DNA

<213> Homo sapiens

<400> 223

gctccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aagggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcgcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgttcctcc gcgggtaccg gcaggacgcc  
tacgacgca 360

aggattacat gcgcctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 224  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 224  
gctccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggagcccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtatga acagcacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcggg gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 225  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 225  
gctccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccgat cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgttcctcc gcgggtaccg gcagcacgcc  
tacgacgca 360

aggattacat gcgcctgaaa gaggacctgc gctcttgac gcggcgggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 226

<211> 897

<212> DNA

<213> Homo sapiens

<400> 226

atggccgtca tggcgccccc aacctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcac cgcctgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240



ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggtttctca  
caccatccag 360

atgatgtatg gctgcgcacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggtggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 227

<211> 546

<212> DNA

<213> Homo sapiens

<400> 227

gctccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtagggctac gtggacgaca cgagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctgggggacc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 228

<211> 546

<212> DNA

<213> Homo sapiens

<400> 228

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagtctgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctgggggacc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaaa gaggacctgc gctcttgac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcggg gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 229

<211> 579

<212> DNA

<213> Homo sapiens

<400> 229

acctctgtcc tgctactctc gggggccctg gccctgacct agacctgggc  
gggctcccac 60

tccatgaggt atttctacac ttccgtgtcc cgccccggcc gcggggagcc  
ccgcttcac 120

gccgtgggct acgtggacga cacgcagttc gtgcggttcg acagcgacgc  
cgcgagccag 180

aggatggagc cgcggggccc gtggatagag caggaggggc cggagtattg  
ggaccggaac 240

acacggaatg tgaaggccca gtcacagact gaccgagtgg acctggggac  
cctgcgcggc 300

tactacaacc agagcgaggc cggttctcac accatccaga tgatgtatgg  
ctgcgacgtg 360

gggtcggacg ggcgttcct ccgcgggtac cggcaggacg cctacgacgg  
caaggattac 420

atcgccctga aagaggacct gcgctcttgg accgcggcgg acatggcagc  
tcagatcacc 480

aagcacaagt gggaggcgcg ccatgtggcg gagcagtgga gagcctacct  
ggagggcacg 540

tgcgtggagt ggctccgcag atacctggag aacgggaag  
579

<210> 230

<211> 866

<212> DNA

<213> Homo sapiens

<400> 230

atggcccgta tggcgccccc aaccctcgtc ctgtactctt cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcgagac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagtg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccttgaggctg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggtggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgaggg  
866

<210> 231

<211> 546

<212> DNA

<213> Homo sapiens

<400> 231

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc  
ggggagcccc 60

gcttcatcg cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat gcgccgaaa gaggacctgc gctcttgga cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtggt ctcgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 232  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 232  
gctccactc catgaggtat ttctacacct ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 233  
<211> 615  
<212> DNA  
<213> Homo sapiens

<400> 233  
 ccgtcatggc gccccgaacc ctctgtcctgc tactctcggg ggccctggcc  
 ctgaccacaga 60  
  
 cctggggcggg ctccactcc atgaggtatt tctacacttc cgtgtcccg  
 cccggccgag 120  
  
 gggagcccg ctctatcgcc gtgggctacg tggacgacac gcagtctgtg  
 cggttcgaca 180  
  
 gcgacgccgc gagccagagg atggagccgc gggcgccgtg gatagagcag  
 gaggggcccgg 240  
  
 agtattggga ccggaacaca cggaatgtga aggccagtc acagactgac  
 cgagtggacc 300  
  
 tggggaccct gcgcggctac tacaaccaga gcgaggccgg ttctcacacc  
 atccagatga 360  
  
 tgtatggctg cgacgtgggg tcggacgggc gcttctctcg cgggtaccgg  
 caggacgcct 420  
  
 acgacggcaa ggattacatc gccctgaaag aggacctgag ctcttgagacc  
 gcgagcgaca 480  
  
 tggcagctca gaccaccaag cacaagtggg aggcggccct tgtggcggag  
 cagtggagag 540  
  
 cctacctgga gggcacgtgc gtggagtggc tccgcagata cctggagaac  
 ggggaaggaga 600  
  
 cgctgcagcg cacgg  
 615

<210> 234  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 234  
 atggccgtca tggcgccccc aaccctcgtc ctgctactct cgggggccct  
 ggcctgacc 60

cagacctggg cgggctccca ctccatgagg tattttctaca cttccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcac cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccgcgagtg 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaa 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggtggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 235

<211> 546

<212> DNA



<213> Homo sapiens

<400> 235

gctccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggccagc cacagactga ccgagtggac  
ctggggacc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

atggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 236

<211> 546

<212> DNA

<213> Homo sapiens

<400> 236

gctccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aagggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cacttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 237

<211> 546

<212> DNA

<213> Homo sapiens

<400> 237

gctccactc catgaggtat ttctacactt ccgtgtcccg gcccgccgc  
ggggagcccc 60

gttctatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aagggccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcgaggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa ccggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 238

<211> 897

<212> DNA

<213> Homo sapiens

<400> 238

atggccgtca tggcgccccg aaccctcgtc ctgtactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcacgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catgcacctg aaagaggacc tgcgtcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccacg gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggtggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 239

<211> 546

<212> DNA

<213> Homo sapiens

<400> 239

gtccccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc  
gggagagccc 60

gcttcacgcg cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgcg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgcacctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 240

<211> 897

<212> DNA

<213> Homo sapiens

<400> 240

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cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccgccccggc 120

cgcggggagc cccgcttcac cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

gggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 241

<211> 897

<212> DNA

<213> Homo sapiens

<400> 241

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ggccctgacc 60

cagaccaggc ggggtccca ctccatgagg tatttcttca catccgtgc  
ccggcccggc 120

cgcggggagc ccgccttcat cgccgtgggc tacgtggagc acacgcagtt  
cgtcggttt 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac  
tgaccgagt 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggta  
ccagcaggac 420

gcctacgacg gcaaggatta catcgcttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgctgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcggccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctggggcctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggaggga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780

gggatggaa ccttcagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 242

<211> 619

<212> DNA

<213> Homo sapiens

<400> 242

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cagacctggg cgggctccca ctccatgagg tatttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggagc acacgcagtt  
cgtgcggttt 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
ccagcaggac 420

gcctacgacg gcaaggatta catcgcttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgg  
619

<210> 243

<211> 619

<212> DNA

<213> Homo sapiens

<400> 243

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ggccctgacc 60

cagaccaggg cgggctccca ctccatgagg tatttcttca catccgtgtc  
ccggcccggc 120

cgcgggggag cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttt 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac  
tgaccgagtg 300

gacctggcga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
ccagcaggac 420



gcctacgacg gcaaggatta catcgcttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgctggag tggctccga gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgg  
619

<210> 244

<211> 547

<212> DNA

<213> Homo sapiens

<400> 244

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cgcttcacg ccgtgggcta cgtggacgac acgcagttcg tgcggtttga  
cagcgacgcc 120

gcgagccaga ggatggagcc gcggggcgcg tggatagagc aggagggttc  
ggagtattgg 180

gacggggaga cacggaaagt gaaggccac tcacagactg accgagtgga  
cctggggacc 240

ctgcgcggt actacaacca gagcgaggcc ggttctcaca ccatccagat  
gatgtatggc 300

tgcgacgtgg ggcgggacgg gcgcctctc cgcgggtacc agcaggacgc  
ctacgacggc 360

aaggattaca tcgccttgaa cgaggacctg cgctcttgga ccgcggcgga  
catggcggtc 420

cagatcacc agcgcaagtg ggaggcggcc cgtgtggcgg agcagttgag  
agcctacctg 480

gagggcacgt gcgtggagtg gctccgcaga tacctggaga acgggaagga  
gacgtgcag 540

cgcacgg  
547

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ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgagttcgt gcggtttgac  
agcgacgcc 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggccact cacaggctga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatgct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttgac cgcgcgggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgctgcagc 540

gcacgg  
546

<210> 246  
<211> 545  
<212> DNA  
<213> Homo sapiens

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ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggt 300

gcgacgtggg gccggacggg cgctctctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttgac cgcgcgggac  
atggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacg  
545

<210> 247

<211> 546

<212> DNA

<213> Homo sapiens

<400> 247  
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ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggccact cacagattga ccgagtggac  
ctgggggacc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttgac cgcgcgccgac  
atggcggctc 420

agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
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gcacgg  
546

<210> 248

<211> 546

<212> DNA

<213> Homo sapiens

<400> 248

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gcttcacgc cgtgggctac gtggacgaca cgagttcgt gcggttgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcccgt ggatagagca ggagggccg  
gagtattggg 180

accaggagac acggaatgtg aaggccact cacagactga ccgagtggac  
ctgggggacc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggcca gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 249

<211> 546

<212> DNA

<213> Homo sapiens

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ggggagcccc 60

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agcgacgccc 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccaact cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gccgacggg cgcctcctcc gcgggtacca gcaggacgcc  
tacgacgga 360

aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 250  
<211> 897  
<212> DNA  
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ggccctgacc 60

cagacctggg caggctccca ctccatgagg tatttcttca catccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg actcgcagtt  
cgtgcagttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggaggag 240

ccggagtatt gggacgagga gacacggaat gtgaaggccc actcacagac  
taaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccgtcgggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ctctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttcagaa gtgggcggct gtggtgttac cttctggaaa  
ggagaagaga 840

tacacctgcc atgtgcagca tgagggtctg cccgagcccc tcacctgag  
atgggag 897

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16

<210> 252  
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<212> DNA  
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<400> 252  
gaccaggaga cacggaata  
19

<210> 253  
<211> 17  
<212> DNA  
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<400> 253  
gcggagcagc ggagagt  
17

<210> 254  
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<212> DNA  
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<400> 254  
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17

<210> 255  
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<400> 255  
gtctacctgg agggccg  
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<210> 256  
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<212> DNA  
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<400> 256  
aggtgctggg ccctgg  
16

<210> 257  
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<212> DNA  
<213> Homo sapiens

<400> 257  
ggtggtgcct tctggag  
17

<210> 258  
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<212> DNA  
<213> Homo sapiens

<400> 258  
caccctgaga tgggagct  
18

<210> 259



<211> 17  
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<400> 259  
ccctgagatg ggagctg  
17

<210> 260  
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<212> DNA  
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<400> 260  
ggacatggca gctcagatt  
19

<210> 261  
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<400> 261  
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20

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ccggcccggc agtgga  
16

<210> 263  
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<400> 263

ttctcacacc atccagatg  
19

<210> 264  
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<400> 264  
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17

<210> 265  
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<400> 265  
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17

<210> 266  
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atagagcagg agaggcct  
18

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<400> 267  
ctcacagact gaccgaga  
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<210> 268  
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ctacaaccag agcgaggc  
18

<210> 269  
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gagtctacct ggagggct  
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<400> 270  
gtggacgaca cgcagtta  
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<400> 272  
ggcccactca cagactc  
17

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<400> 273  
ggccggttct cacaccg  
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<210> 274  
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<400> 274  
ttctcacacc gtccagag  
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<210> 275  
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<210> 276  
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<400> 276  
gggaggcggc ccatgt  
16

<210> 277  
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<212> DNA  
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<400> 277  
ccatgtggcg gaggcagtt  
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<400> 280  
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<210> 281  
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<400> 281  
ccggagtatt gggacgg  
17

<210> 282  
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<400> 282  
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18

<210> 283  
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<400> 283  
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16

<210> 284  
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<400> 284  
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<210> 285  
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ggacatggca gctcagac  
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<210> 287  
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<212> DNA  
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<400> 287  
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17

<210> 288  
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<400> 288  
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<400> 290  
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20

<210> 291  
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<212> DNA  
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<400> 291  
ggggtcggac tggcga  
16

<210> 292  
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<400> 292  
tcccggcccg gccgt  
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<210> 293  
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<400> 293  
catgtgcagc atgagggtt  
19

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<400> 294  
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<210> 295  
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<400> 295  
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<400> 297  
ccaagcaca gtgggaga  
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<210> 298  
<211> 17  
<212> DNA  
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<400> 298  
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<400> 299  
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<400> 300  
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20

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<400> 301  
cacccgtccag aggatgtg  
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<210> 302  
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<400> 302  
gtggagacca ggcctga  
17

<210> 303  
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<212> DNA  
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<400> 303  
cacccgtccag aggatggt  
18

<210> 304  
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<400> 304  
gaaggccac tcacagat  
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<210> 305  
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<400> 305  
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ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
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gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctcag 360

agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
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gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcaggac 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gctgggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
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<210> 1164

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1164

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ccgccccggc 120

cgcgggggagc cccgcttcat ctcaagtggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcg 540

agagcctacc tggaggggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggtttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgtgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1165

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1165

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ccggccccggc 120

cgcgggggagc cccgcttcat ctccagtgggc tacgtggacg acacccagtt  
cgtgaggttc 180

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gcaggaggggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg ccctgagggc  
ggagcagcgg 540

agagcctacc tggaggggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

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cacactgacc 720

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cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtgtgtc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagccg 900

tcttcccagt ccacctgcc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

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<210> 1166

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1166

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agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgagctggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtct 420

agatcaccca gcgcaagtgg gaggcgggcc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1167  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1167  
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cagcgacgcc 120

gcgagtcgga gagaggagcc gcgggcgccg tggatagagc aggaggggcc  
ggagtattgg 180

gaccggaaca cacagatctt caagaccaac acacagactg accgagagag  
cctgcggaac 240

ctgcgcggct actacaacca gagcgaggcc ggggtctcaca ccctccagag  
catgtacggc 300

tgcgacgtgg ggccggacgg gcgcctctc cgcgggcatg accagtacgc  
ctacgacggc 360

aaggattaca tcgccctgaa cgaggacctg cgctcctgga ccgccgcgga  
cacggcggct 420

cagatcacc agcgcaagtg ggaggcggcc cgtgaggcgg agcagcggag  
agcctacctg 480

gagggcgagt gcgtggagtg gctccgcaga tacctggaga acgggaagga  
caagctggag 540

cgcgct  
546

<210> 1168  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 1168  
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ccggcccggc 120

cgcggggagc cccgcttcat ctcaagtggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgctcctg  
gaccgcgcgc 480

gacacggcgg ctcaatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggaggggca gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

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619

<210> 1169

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1169

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agcgacccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctgc aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcccgggac  
acggcggctc 420

agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1170

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1170

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agcgacgccg 120

cgagtccgag agaggagccg cgggcccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagAAC  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360



aggattacat cgccctgaac gaggacctgc gtcctctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1171

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1171

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ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gtcctctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1172  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1172  
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ggggagcccc 60

gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1173  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1173  
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 ggggagcccc 60  
  
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 agcgacgccg 120  
  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
 gagtattggg 180  
  
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 ctgcggaacc 240  
  
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 atgtacggct 300  
  
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 tacgacggca 360  
  
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 acgcggcctc 420  
  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
 gcctacctgg 480  
  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
 aagctggagc 540  
  
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<210> 1174  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 1174  
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 agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
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agatcaccca gcgcaagtgg gaggcgggcc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1175

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1175

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ggggagcccc 60

gcttcatctc agtggggtac gtggacgaca ccagttcgt gaggttcgac  
agcgacggcg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggaac  
acggcggtc 420

agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaagggac  
aagctggagc 540

gcgctg  
546

<210> 1176

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1176

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agcgacggcg 120

cgagtccgag agaggagccg cgggcggcgt ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggaac  
acggcggtc 420

agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

aggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1177  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1177  
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ccggccccgc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acaccagtt  
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gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg  
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agagcctacc tggaggggcg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccaccc  
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cagaccagca 780

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agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttccagtg ccaccgtccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgtcgtctgt atgtgtagga ggaagagttc  
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<210> 1178

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1178

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agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
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gcgagctggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcaggacaga  
gcctacctgg 480

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546

<210> 1179

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1179

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agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aagggccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
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gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
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gcctacctgg 480

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gcgctg  
546



<210> 1180  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1180  
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agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180  
  
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240  
  
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360  
  
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aagctggagc 540  
  
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546

<210> 1181  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1181  
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ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcggag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aagcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgagctggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacgga 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcgaac  
acggcggtctc 420

agatcaccca gcgcaagtgg gaggcgggcc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1182

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1182

gtcccaactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcggag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aagcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcgccca ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcgga  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcgccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaagga  
aagctggagc 540

gcgctg  
546

<210> 1183

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1183

gtccccactc catgaggat ttctacacct ccgtgtcccg gcccgggcgc  
ggggagcccc 60

gcttcatttc agtgggttac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aagggccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcgga  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggsaaggac  
aagctggagc 540

gcgctg  
546

<210> 1184  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1184  
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ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcgc 120

cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacgcct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggsaaggac  
aagctggagc 540

gcgctg  
546

<210> 1185  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1185  
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgcag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1186  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1186

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagaggac  
ctgcggaccc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggt 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtcc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1187

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1187

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcgcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggaac  
acggcggtctc 420

agatcaccca gcgcaagtgg gaggcgccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1188

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1188

gtccccactc catgaggat ttcgacaccg ccatgtcccg gcccggccgc  
gggagagccc 60

gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacggcg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatctac aaggccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcgcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtct 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaagagac  
aagctggagc 540

gcgctg  
546

<210> 1189

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1189

gctccactc catgaggat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcg 120

cgagtccgag agaggagccg ccggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggt 300

gcgagctggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtct 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaagagac  
aagctggagc 540



gcgctg  
546

<210> 1190  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1190  
gctccactc catgagggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240  
  
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacgct 300  
  
gcgacgtggg gccggacggg cgccctctcc gcgggcatga ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gtcctggac cgccgcgga  
acggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagagac  
aagctggagc 540

gcgctg  
546

<210> 1191  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1191  
 atgctggtca tggcgccccc aaccgtcctc ctgctgctct cgcgcgccct  
 ggccctgacc 60  
  
 gagacctggg ccggctccca ctccatgagg tatttcgaca ccgccaatgtc  
 ccggcccggc 120  
  
 cgcgggggagc cccgcttcac ctcaagtggc tacgtggagc acacgcagtt  
 cgtgaggttc 180  
  
 gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
 gcaggagggg 240  
  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
 tgaccgagag 300  
  
 agctcgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
 caccctccag 360  
  
 agcatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
 taaccagtac 420  
  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
 gaccgcggcg 480  
  
 gacaccgcgg ctca gatcac ccagcgcaag tgggaggcgg ccggtgtggc  
 ggagcaggac 540  
  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
 gaacgggaag 600  
  
 gacacgctgg agcgcgcgga cccccaaag acacacgtga cccaccaccc  
 catctctgac 660  
  
 catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
 cacactgacc 720  
  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
 cagaccagca 780  
  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgtc cttctggaga  
 agagcagaga 840  
  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
 atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgetg gcctggctgt  
cctagcagtt 960

gtggctcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1192

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1192

atgtgtgtca tggcgccccg aaccgtcctc ctgtgtctct cgggggccct  
ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tatttcgaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcatgtggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
tgaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggcccggc gggcgccctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacacgctgg agcgcgcgga cccccaaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagccg 900

tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1193

<211> 526

<212> DNA

<213> Homo sapiens

<400> 1193

ttcgacaccg ccatgtcccg gcccggccgc ggggagcccc gcttcatctc  
agtgggctac 60

gtggacgaca cgcagttcgt gaggttcgac agcgacgccg cgagtccgag  
agaggagccg 120

cgggcgccgt ggatagagca ggaggggccg gagtattggg accggaacac  
acagatcttc 180

aagaccaaca cacagactta ccgagagaa ctcgggatcg cgctccgcta  
ctacaaccag 240

agcgaggccg ggtctcacac cctccagagc atgtacggct gcgacgtggg  
gccggacggg 300

cgctcctcc gcgggcataa ccagtacgcc tacgacggca aggattacat  
cgccctgaac 360

gaggacctgc gctcctggac cgcggcggac accgcggctc agatcaccca  
gcgcaagtgg 420

gaggcgccccc gtgtggcgga gcaggacaga gcctacctgg agggcacgtg  
cgtggagtgg 480

ctccgcagat acctggagaa cgggaaggac acgctggagc gcgcgg  
526

<210> 1194

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1194

gctcccactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacatc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactga ccgagagagc  
ctcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540

gcgcgg  
546

<210> 1195

<211> 546

<212> DNA  
<213> Homo sapiens

<400> 1195  
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ggggagcccc 60  
  
gtttcatctc agtgggctac gtggacgaca cgcagtctct gaggttcgac  
agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acagaccttc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240  
  
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcgctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540  
  
gcgcgg  
546

<210> 1196  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1196  
gctccactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gtttcatctc agtgggctac gtggacgaca cgcagtctct gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagagaac  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540

gcgcgg  
546

<210> 1197

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1197

gctcccactc catgaggat ttcgacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagtctgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgttgagc 540

gcgcgg  
546

<210> 1198

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1198

gctccactc catgaggtat ttcgacaccg ccatgtcccg gcccgggcgc  
ggggagcccc 60

gcttcatttc agtgggctac gtggacgaca cgcagtctct gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480



agggcacgtg cgtggagtg ctccgcagat acctggagaa cgsgaaggac  
acgctggagc 540

gcgcgg  
546

<210> 1199

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1199

gctccactc catgaggtat ttcgacaccg ccatgtcccg gcccggcccg  
ggggagcccc 60

gcttcattc agtgggctac gtggacgaca cgcagtctct gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accgggacac acagatcttc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcgccggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtg ctccgcagat acctggagaa cgsgaaggac  
acgctggagc 540

gcgcgg  
546

<210> 1200

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1200  
gctccactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcgcggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540

gcgcgg  
546

<210> 1201  
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<212> DNA  
<213> Homo sapiens

<400> 1201  
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ggggagcccc 60

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agcgacgccg 120

cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat gcgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggtct 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggac  
acgtggagc 540

gcgcgg  
546

<210> 1202

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1202

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agcgacgccg 120

cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcgggcc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgtgtgagc 540

gcgcgg  
546

<210> 1203

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1203

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ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagtctgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggtacca ccagacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540

gcgcgg  
546

<210> 1204

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1204

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ggggagcccc 60

gcttcatttc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggtc 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat gcgcctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggttc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540

gcgcgg  
546

<210> 1205  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1205  
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ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cgcagtctgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacaggctga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgtggcggg gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggac  
acgtggagc 540

gcgcgg  
546

<210> 1206  
<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 1206  
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ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtcggag agaggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactga ccgagagaac  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgagctggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgtggagc 540

gcgcggaccc cccaaagaca cacgtgacct accaccccat ctctgacct  
gaggccaccc 600

tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1207

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1207

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcac caccgtgggc tacgtggacg acaccagtt  
cgtgagggtc 180

gacagcgacg ccacgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aactcgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggccggac gggcgccctc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctacagatcac ccagctcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggaggggca gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccacc  
catctctgac 660

catgaggcca ccctgagggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtgtgtc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900



tcttcccagt ccaccgtccc catcgtgggc attgttgetg gcctggctgt  
cctagcagtt 960

gtggctcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1208

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1208

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ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacct ggggccggac gggcgctcc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagctcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggaggggcg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttccagtg ccaccgtccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgtcgtctgt atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1209

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1209

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc ccgccttcac caccgtgggc tacgtggagc acaccagtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aactgcgcga ccgcgtccg ctactacaac cagagcgagg ccgggtctca  
cacttgagag 360

acgatgtatg gctgcgacct ggggccggac gggcgctcc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcgacg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gctgggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1210

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1210

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ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tatttctaca ccgcatgtc  
ccgccccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccacgagtc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg cggggtctca  
cacttgcgag 360

acgatgtatg gctgcgacct ggggccggac gggcgctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggtccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccaaagcccc tcaccctgag  
atgggagcca 900

tcttcccaat ccaccgtccc catcgtgggc attgttgctg gcttggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgtgctgtg atgtgtagga ggaagagctc  
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<210> 1211

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1211

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gcttcatcac cgtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcca 120

cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg  
atgtatggct 300

gcgacctggg gccggacggg cgccctctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gctcaagtgg gaggcgcccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggsaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1212

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1212

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gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc	cccgttcat	caccgtgggc	tacgtggacg	acaccagtt
cgtaggttc	180			
gacagcgacg	ccacgagtc	gaggatggcg	ccccgggcgc	catggataga
gcaggagggg	240			
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ttaccgagag	300			
aactgcgcga	ccgcgtccg	ctactacaac	cagagcgagg	ccgggtctca
cacttggcag	360			
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taaccagtta	420			
gcctacgacg	gcaaggatta	catcgccctg	aacgaggacc	tgagctcctg
gaccgcggcg	480			
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ggagcagctg	540			
agagcctgcc	tggagggcga	gtgcgtggag	tggctccgca	gatacctgga
gaacgggaag	600			
gagacgtgc	agcgcgcgga	ccccccaaag	acacacgtga	cccaccaccc
catctctgac	660			
catgaggcca	ccctgaggtg	ctgggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacactgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttcagaa	gtgggcagct	gtggtggtgc	cttctggaga
agagcagaga	840			
tacacatgcc	atgtacagca	tgaggggctg	ccgaagcccc	tcaccctgag
atgggagcca	900			
tcttccagct	ccaccgtccc	catcgtgggc	attgttctg	gcctggctgt
cctagcagtt	960			
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<210> 1213  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1213  
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ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacctggg gccggacggg cgccctctcc gcgggcataa ccagttagcc  
tacgacgga 360

aggattacat cgccctgaac gaggacctga gtcctggac cgcggcggac  
accgcgctc 420

agatcaccca gctcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

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acgctgcagc 540

gcgcgg  
546

<210> 1214  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1214  
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ggggagcccc 60

gcttcacac cgtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcca 120

cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
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gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccagtcgccc  
tacgacgcca 360

aggattacat gcgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gctcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1215

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1215

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agcgacgcca 120

cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240



cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacctggg gccggacggg cgctctctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgggcgac  
accgcgctc 420

agatcaccca gctcaagtgg gagggggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtg ctcgcagat acctggagaa cggaagagg  
acgctgcagc 540

gcgcggaacc cccaaagaca cacgtgacct accaccccat ctctgacct  
gagggcacc 600

tgaggtgctg ggcctggggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1216

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1216

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccg 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg cggggtctca  
caccctccag 360

tggatgtatg gctgcgacgt ggggccggac gggcgccctcc tccgcgggta  
taaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggaggggcac gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcttggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgtgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1217

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1217

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat ctccagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tgatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctccagatcac ccagcgcaag tgggaggcgg ccggtgaggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgtctg agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgagggt ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtgtgtc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttcccagt ccacctgcc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcacgt gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1218

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1218

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gcttcatttc agtgggctac gtggacgaca cgcagtctgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtatggtc 300

gcgacgtggg gccggacggg cgctctctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat gcgcctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcgggcc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcggaacc cccaaagaca catgtgacct accaccccat ctctgacct  
gaggccacct 600

tgaggtgctg ggccttgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga  
gacagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagccctca cctgagatg gg  
822

<210> 1219

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1219

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gcttcactc agtgggctac gtggacgaca cgcagtctgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagaactgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtatggct 300

gcgagctggg gccggacggg cgctctctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgccgac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaagggag  
acgctgcagc 540

gcgcgg  
546

<210> 1220  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 1220  
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ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggagc acacgcagtt  
cgtgaggttc 180

gacagcgagc ccgcgagtcc gagagaggag ccgcgggagc cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
taaccagttc 420

gcctacgagc gcaaggatta catcgccctg aacaggagacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg ccgctgaggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccga gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcg  
619

<210> 1221  
<211> 546

<212> DNA  
<213> Homo sapiens

<400> 1221  
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ggggagcccc 60  
  
gcttcattctc agtgggctac gtggacgaca cgcagtctct gaggttcgac  
agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggccg  
gaatattggg 180  
  
accggaacac acagattctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240  
  
tgcgcggtcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgctctctcc gcgggtataa ccagtccgc  
tacgacgca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcgctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1222  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1222  
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ggggagcccc 60  
  
gcttcattctc agtgggctac gtggacgaca cgcagtctct gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtct 420

agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1223

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1223

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300



agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgcagct ggggcccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga ccccccaaag acacatgtga cccaccacc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttccagtc ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1224

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1224

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gggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc  
tacgacgga 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1225

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1225

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gggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaat gaggacctga gctcctggac cgcggcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaagagg  
acgctgcagc 540

gcgcgg  
546

<210> 1226

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1226

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ggggagcccc 60

gcttcacgc agtgggttac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgcg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1227  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1227  
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ggccctgacc 60

gagacctggg ccggtcccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcac cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggtccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtggggcagct gtggtgtgac cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttctgt gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1228

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1228

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccacc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1229

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1229

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gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cgtgaggttc	cccgtttcat 180	cgcagtgggc	tacgtggacg	acaccagtt
gacagcgacg gcaggagggg	ccgcgagtcc 240	gaggatggcg	ccccgggcgc	catggataga
ccggagtatt ttaccgagag	gggaccggga 300	gacacagatc	tccaagacca	acacacagac
agcctgcgga cacttggcag	acctgcgcgg 360	ctactacaac	cagagcgagg	ccgggtctca
acgatgtatg tgaccagtcc	gctgcgacgt 420	ggggccggac	gggcgcctcc	tccgcgggca
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gacacggcgg ggagcagtgg	ctcagatcac 540	ccagcgcaag	tgggaggcgg	cccgtgaggc
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gagacgctgc catctctgac	agcgcgcgga 660	ccccccaaag	acacatgtga	cccaccaccc
catgaggcca cacactgacc	ccctgagggtg 720	ctggggccctg	ggcttctacc	ctgcggagat
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ggagatagaa agagcagaga	ccttccagaa 840	gtgggcagct	gtggtggtgc	cttctggaga
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tcttcccagt cctagcagtt	ccaccatccc 960	catcgtgggc	attgttgctg	gcctggctgt
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<210> 1230  
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<212> DNA  
<213> Homo sapiens

<400> 1230  
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cggggagccc 60

cgcttcacgc cagtgggcta cgtggacgac acccagttcg tgaggttcga  
cagcgacgcc 120

gcgagtcgga ggatggcgcc ccgggcgcca tggatagagc aggaggggcc  
ggagtattgg 180

gaccgggaga cacagatctc caagaccaac acacagactt accgagagag  
cctgcggaac 240

ctgcgcggct actacaacca gagcgaggcc gggctctaca ccctccagag  
gatgtacggc 300

tgcgacgtgg ggccggacgg gcgcctcctc cgcgggcatg accagtccgc  
ctacgacggc 360

aaggattaca tcgccctgaa cgaggacctg agctcctgga ccgcggcgga  
cacggcggct 420

cagatcaccg agcgcaagtg ggaggcggcc cgtgtggcgg agcagctgag  
agcctacctg 480

gagggcctgt gcgtggagtg gctccgcaga tacctggaga acgggaagga  
gacgctgacg 540

cgcgcggaac ccccaaagac acatgtgacc caccacccca tctctgacca  
tgaggccacc 600

ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg  
gcagcgggat 660

ggcgaggacc aaactcagga caccgagctt gtggagacca gaccagcagg  
agatagaacc 720

ttccagaagt gggcagctgt ggtggtgcct tctggagaag agcagagata  
cacatgccat 780



gtacagcatg aggggctgcc gaagccctc accctgagat gggagccatc  
ttcccagtc 840

accatcccca tcgtgggcat tgttgctggc ctggctgtcc tagcagttgt  
ggtcacgga 900

gctgtggtcg ctactgtgat gtgtaggagg aagagctcag gtgga  
945

<210> 1231

<211> 945

<212> DNA

<213> Homo sapiens

<400> 1231

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cagcgacgac 120

gcgagtcgga ggatggcgcc ccgggcgcca tggatagagc aggaggggccc  
ggagtattgg 180

gaccgggaga cacagatctc caagaccaac acacagactt accgagagag  
cctgcggaac 240

ctgcgcggct actacaacca gagcgaggcc gggctctcaca ccctccagag  
gatgtttggc 300

tgcgacgtgg ggccggacgg gcgcctcctc cgcgggtatg accagtccgc  
ctacgacggc 360

aaggattaca tcgccctgaa cgaggacctg agctcctgga ccgcggcgga  
cacggcggtc 420

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agcctacctg 480

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<210> 1232

<211> 945

<212> DNA

<213> Homo sapiens

<400> 1232

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gcgagtcgga ggatggcgcc ccgggcgcca tggatagagc aggaggggccc  
ggagtattgg 180

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catgtacggc 300

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agcctacctg 480

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gacgctgcag 540

cgcgcggaacc ccccaaagac acatgtgacc caccacccca tctctgacca  
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ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg  
gcagcgggat 660

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agatagaacc 720

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<211> 1017

<212> DNA

<213> Homo sapiens

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ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
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caccctccag 360

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gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
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gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
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atgggagcca 900

tcttccagtt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

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<210> 1234

<211> 1017

<212> DNA

<213> Homo sapiens

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ccggcccggc	120			
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cgtgaggttc	180			
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gcaggagggg	240			
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cacactgacc	720			
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cagaccagca	780			
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agagcagaga	840			
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atgggagcca	900			

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cctagcagtt 960

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<210> 1235

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1235

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ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac  
ttaccgagag 300

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caccctccag 360

aggatgtacg gctgcgacgt ggggcccggac gggcgccctc tccgcgggca  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
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cacactgacc 720

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cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

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atgggagcca 900

tcttccagtg ccaccatccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
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<210> 1236

<211> 1017

<212> DNA

<213> Homo sapiens

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ccggcccggc 120

cgcggggagc ccgccttcac cgcagtgggc tacgtggagc acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaagacca acacacagac  
ttaccgagag 300

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caccctcag 360

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tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

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ggagcagtgg 540

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gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

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cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

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tcttcccagt ccaccatccc catcgtgggc attgttgctg gctgggctgt  
cctagcagtt 960

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<210> 1237

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1237

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agcgacgcg 120

cgagtccgag gatggctccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180



accggaacac acagatctac aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

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atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

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acggcggtctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga  
gcctacctgg 480

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546

<210> 1238

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1238

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ccggcccggc 120

cgcgggggagc cccgcttcac cgcagtgggc tacgtggacg acaccagtt  
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gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

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caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
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gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

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gaacgggaag 600

gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

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cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

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atgggagcca 900

tcttccagtc ccaccatccc catcgtgggc attgttgctg gcttggtgtg  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1239

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1239

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ccggcccggc 120

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gcaggagggg	240			
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ttaccgagag	300			
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gaccgcggcg	480			
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ggagcagctg	540			
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cacactgacc	720			
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cagaccagca	780			
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agagcagaga	840			
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atgggagcca	900			
tcttccagct	ccaccatccc	catcgtgggc	attgttctg	gcctggctgt
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ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
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tgaccagtcc 420

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cacactgacc 720

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cagaccagca 780

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agagcagaga 840

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atgggagcca 900

tcttccagt ccaccatccc catcgtgggc attgttctg gcttggtgt  
cctagcagtt 960

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<210> 1241

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1241

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ccgccccggc 120

cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt  
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gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga  
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ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac  
ttaccgagag 300

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caccctccag 360

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gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
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gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
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gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
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agagcagaga 840

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atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgtg gcttggtgtg  
cctagcagtt 960

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<210> 1242

<211> 1017

<212> DNA

<213> Homo sapiens

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cgcggggagc cccgcttcac cgcagtgggc tacgtggacg acacgcagtt  
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aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
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aggatgtatg gctgcgacct ggggccggac gggcgccctcc tccgcgggca  
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cacactgacc 720

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cctagcagtt 960

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<211> 1017

<212> DNA

<213> Homo sapiens

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ccggcccggc 120

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ccggagtatt gggaccggga gacacggaac atgaaggcct ccgcgcagac  
ttaccgagag 300

aacgtcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgagggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tttcccagtc ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960



gtggtcatcg gagctgtggt cgtactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1244

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1244

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ccgccccggc 120

cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttccagtt ccaccatccc catcgtgggc attgttgetg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1245

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1245

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gagacctggg ccggtctcca ctccatgag tatttctaca ccgcatgtc  
ccggccccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg cccggggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccagagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggg  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtgtgtc tttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgtgtctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agggtga 1017

<210> 1246

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1246

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccaatgc  
ccggcccggc 120

cgcggggagc cccgcttcac cgcagtgggc tacgtggagc acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct gggggccgac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtgtgtc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttccagtt ccaccatccc catcgtgggc attgtgtgtg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgttgt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1247

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1247

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ccggcccggc	120			
cgcgggggagc	cccgttcat	cgcagtgggc	tacgtggacg	acaccagtt
cgtgaggttc	180			
gacagcgacg	ccgcgagtcc	gaggatggcg	cccggggcgc	catggataga
gcaggagggg	240			
ccggagtatt	gggaccggaa	cacacagatc	tgcaagacca	acacacagac
ttaccgagag	300			
agcctgcgga	acctgcgcgg	ctactacaac	cagagcgagg	ccgggtctca
catcatccag	360			
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tgaccagtcc	420			
gcctacgacg	gcaaggatta	catcgccctg	aacgaggacc	tgagctcctg
gaccgcggcg	480			
gacacggcgg	ctcagatcac	ccagcgcaag	tgggaggcgg	cccgtgaggc
ggagcagctg	540			
agagcctacc	tggagggcct	gtgcgtggag	tggctccgca	gatacctgga
gaacgggaag	600			
gagacgtcgc	agcgcgcgga	ccccccaaag	acacatgtga	cccaccaccc
catctctgac	660			
catgaggcca	ccctgagggtg	ctggggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacaccgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttccagaa	gtgggcagct	gtggtggtgc	cttctggaga
agagcagaga	840			
tacacatgcc	atgtacagca	tgaggggctg	ccgaagcccc	tcaccctgag
atgggagcca	900			

tcttcccagt ccaccatccc catcgtgggc attgttgetg gcctggctgt  
cctagcagtt 960

gtggctcatcg gagctgtggg cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1248

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1248

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ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttccagtg ccaccatccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1249

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1249

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ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacgct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgc  
tacgacgca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1250

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1250

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gagacctggg ccggtctcca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc ccgccttcac cgcagtgggc tacgtggagc acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catg gataga  
gcaggagggg 240

ccgaggtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600



gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggcctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttccagtc ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1251

<211> 529

<212> DNA

<213> Homo sapiens

<400> 1251

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gggtacgtg gacgacaccc agttcgtgag gttcgacagc gacgccgcga  
gtccgaggat 120

gggccccgg gcgccatgga tagagcagga ggggccggag tattgggacc  
gggagacaca 180

gatctcaaag accaacacac agacttaccg agagagcctg cggaacctgc  
gcggctacta 240

caaccagagc gaggccgggt ctcacaccct ccagaggatg tttggctgcg  
acgtggggcc 300

ggacggggcg ctcctccgcg ggcattgacca gtccgcctac gacggcaagg  
attacatcgc 360

cctgaacgag gacctgagct cctggaccgc ggcggacacg gcggctcaga  
tcaccacgcg 420

caagtgggag gcggcccgtg aggcggagca gtggagagcc tacctggagg  
gcctgtgcgt 480

ggagtggctc cgcagatacc tggagaacgg gaaggagacg ctgcagcgc  
529

<210> 1252

<211> 895

<212> DNA

<213> Homo sapiens

<400> 1252

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ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catg gataga  
gcaggagggg 240

ccggagtatt gggaccggga gatacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atggg 895

<210> 1253

<211> 895

<212> DNA

<213> Homo sapiens

<400> 1253

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ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tatttctaca ccgccatgtc  
ccggccccggc 120

cgcggggagc cccgcttcat ctcaagtggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccagagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgagggtg ctgggcccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atggg 895

<210> 1254

<211> 529

<212> DNA

<213> Homo sapiens

<400> 1254

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gggtacgtg gacgacaccc agttcgtgag gttcgacagc gacgccgcga  
gtccgaggat 120

gggccccgg gcgccatgga tagagcagga ggggccggag tattgggacc  
gggagacaca 180

gatctcaaag accaacacac agacttaccg agagagcctg cggaacctgc  
gcggctacta 240

caaccagagc gaggccgggt ctcacaccct ccagaggatg tacggctgcg  
acgtggggcc 300

ggacggggcg ctccctccgcg ggcataacca gtacgcctac gacggcaagg  
attacatcgc 360

cctgaacgag gacctgagct cctggaccgc ggcggacacg gcggctcaga  
tcacccagcg 420

caagtgggag gcggcccgtg aggcggagca gtggagagcc tacctggagg  
gcctgtgcgt 480

ggagtggctc cgcagatacc tggagaacgg gaaggagacg ctgcagcgc  
529

<210> 1255

<211> 533

<212> DNA

<213> Homo sapiens

<400> 1255

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tcacgcagat 60

gggctacgtg gacgacaccc agttcgtgag gttcgacacg gacgccgcga  
gtccgaggat 120

ggcgccccgg gcgccatgga tagagcagga ggggccggag tattgggacc  
ggaacacaca 180

gatctccaag accaacacac agacttaccg agagagcctg cggaacctgc  
gcggctacta 240

caaccagagc gaggccgggt ctcacaccct ccagaggatg tacggctgcg  
acgtggggcc 300

ggacggggcg ctccctccgc ggtatgacca gtccgcctac gacggcaagg  
attacatcgc 360

cctgaacgag gacctgagct cctggaccgc ggcggacacg gcggctcaga  
tcacccagcg 420

caagtgggag gcggcccgtg tggcggagca gctgagagcc tacctggagg  
gcctgtgcgt 480

ggagtggctc cgcagatacc tggagaacgg gaaggagacg ctgcagcgcg cgg  
533

<210> 1256

<211> 546

<212> DNA  
<213> Homo sapiens

<400> 1256  
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ggggagcccc 60  
  
gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtctggct 300  
  
gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacgca 360  
  
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acggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1257  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1257  
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ggggagcccc 60  
  
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agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
aagcggtctc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtggtg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1258

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1258

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gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacctggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtctc 420

agatcaccca gcgcaagtgg gaggggcccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1259

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1259

gctccactc catgaggtat ttctacaccg ccattgtccg gcccgggcgc  
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gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacggcg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagacg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtctc 420

agatcaccca gcgcaagtgg gaggggcccc gtgaggcgga gcagtggaga  
gcctacctgg 480



agggcctgtg cgtggagtg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1260

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1260

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggcccg  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagtctcg gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccagtccgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1261

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1261  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1262  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1262  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtcgcc  
tacgacgca 360

aggattacat gcgccgaac gaggacctga gctcctggac cgcggcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtgagga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1263

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1263

gctccactc catgaggtat ttctacaccg ccattgtccc gcccggccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtct 420

agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1264

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1264

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtct 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1265

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1265

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacctggg gccggacggg cgctctctcc gcgggcataa ccagttagcc  
tacgacgga 360

aggattacat gcgctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1266  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1266  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcacgc agtgggctac gtggacgaca cccagtctgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagaggac  
ctgcggaccc 240  
  
tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggt 300  
  
gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtccgc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcggg gcagtggaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540  
  
gcgcgg  
546

<210> 1267  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1267  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccagtcgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtct 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1268

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1268

gtcccaactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
gggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtaggcc  
tagcagggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtct 420

agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgctgcagc 540

gcgcgg  
546

<210> 1269

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1269

atgcgggtca cggcgccccg aaccgtcttc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcac cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccacaggtcc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
tgaccagtcc 420



gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagtccttg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcg  
619

<210> 1270

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1270

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc  
ggggagcccc 60

gcttcattc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat gcgccgaac gaggacctga gctcctggac cgcggcggac  
acggcggtct 420

agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1271  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1271  
gctcccactc catgaggat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcgctc 420

agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1272  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1272  
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 ggggagcccc 60  
  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
 agcgacgccg 120  
  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
 gagtattggg 180  
  
 accgggagac acagatctcc aagaccaaca cacggactta ccgagagagc  
 ctgcggaacc 240  
  
 tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
 atgtacggct 300  
  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
 tacgacggca 360  
  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
 acgcggtctc 420  
  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
 gcctacctgg 480  
  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
 acgctgcagc 540  
  
 gcgcgg  
 546

<210> 1273  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 1273  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
 ggggagcccc 60  
  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
 agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcttgac cgcgcgggac  
acggcggtct 420

agatcaccca gcgcaagtgg gaggcgggcc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1274

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1274

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtggggtac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctcctcc gcgggcatga ccagtcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtcc 420

agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggsaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1275

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1275

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ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tatttctaca ccgccatgtc  
ccggccccgc 120

cgcggggagc cccgcttcat ctcaagtggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac  
ttaccagagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccga gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgg  
619

<210> 1276

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1276

atgcggtca cggcgccccg aaccgtctc ctgetgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggagc acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catg gataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtg 540

agagcctacc tggagggcct gtgcgtggag tggctccga gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcg  
619

<210> 1277  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1277  
atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tatttctaca ccgccatgtc  
ccggccccgg 120

cgcgggggagc cccgcttcat ctcagtgggc tacgtggagc acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttccagtt ccaccatccc catcgtgggc attgttgetg gcttggtgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1278

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1278

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtcccca ctccatgag tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg cccggggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac  
ttaccagagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac ggggcctcc tccgcgggta  
tgaccagtcc 420

gctacgacg gcaaggatta catgcacctg aacgaggacc tgagctcctg  
gaccgcggcg 480



gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccacc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtgtgtc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtgtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agggtga 1017

<210> 1279

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1279

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggggac  
acggcggtct 420

agatcaccca gcgcaagtgg gaggcgggcc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcgacg 540

gcgcgg  
546

<210> 1280

<211> 615

<212> DNA

<213> Homo sapiens

<400> 1280

gggtcacggc gccccgaacc gtctctctgc tgctctcggg agccctggcc  
ctgaccgaga 60

cctgggcccgc ctcccactcc atgaggtatt tctacaccgc catgtcccg  
cccggccgcg 120

gggagccccg cttcatcgca gtgggctacg tggacgacac ccagttcgtg  
aggttcgaca 180

gcgacgcccg gagtccgagg atggcgcccc gggcgccatg gatagagcag  
gaggggccgg 240

agtattggga ccgggagaca cagatctcca agaccaaac acagacttac  
cgagtgaacc 300

tgcggaacct gcgcggctac tacaaccaga gcgaggccgg gtctcacacc  
ctccagagga 360

tgtaaggctg cgacgtgggg ccggacgggc gcctctccg cgggcatgac  
cagtccgcct 420

acgacggcaa ggattacatc gccctgaacg aggacctgag ctcttgacc  
gcgcgcgaca 480

cgcggggtca gatcacccag cgcaagtggg aggcggcccc tgaggcggag  
cagtggagag 540

cctacctgga gggcctgtgc gtggagtggc tccgcagata cctggagaac  
gggaaggaga 600

cgctgcagcg cgcg  
615

<210> 1281

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1281

atgcgggtca cggcgccccg aaccgtctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccgccccggc 120

cgcggggagc ccgcttcat cgcagtggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccgga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agctcgcgga acctgcgcgg ctactacaac cagagcgagg cggggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggagggcg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggetccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcg  
619

<210> 1282

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1282

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcaac  
agcgacgccc 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggcatga ccagtccgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtggt ctcgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1283

<211> 546

<212> DNA  
<213> Homo sapiens

<400> 1283  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240  
  
tgcgcggtc ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1284  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1284  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acgcgggctc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1285

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1285

gtccccactc catgaggat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacgct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtctc 420

agatcaccca gcgcaagtgg gaggggcccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1286

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1286

gctccactc catgaggtat ttctacaccg ccattgtccg gcccgggcgc  
ggggagcccc 60

gcttcatttc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacggcg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtctc 420

agatcaccca gcgcaagtgg gaggggcccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgsgaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1287

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1287

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggcccg  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagtctcg gaggttcgac  
agcgacgcgc 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgsgaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1288



<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1288  
atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tatttctaca ccgccatgtc  
ccggccccgg 120

cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcg gaggatggcg cccggggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggetccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtgtgac cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1289

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1289

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ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acggaacatg aaggcctccg cgcagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtatggct 300

gcgacctggg gccggacggg cgctcctcc gcgggcatga ccagtccgc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcacaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg

546

<210> 1290  
<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 1290  
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcggaacc cccaaagaca catgtgacct accaccccat ctctgacct  
gaggccacct 600

tgagggtgtg ggcctgggc ttctacctg cggagatcac actgacctg  
cagcgggatg 660

gcgaggacca aactcaggac accgagcttg tgagagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggcgctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagccctca ccctgagatg gg  
822

<210> 1291  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1291  
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ggggagcccc 60

gcttcactc agtgggctac gtggacgaca cgagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggtc 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1292  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1292  
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 ggggagcccc 60  
  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
 agcgacgccg 120  
  
 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
 gagtattggg 180  
  
 accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc  
 ctgcggaacc 240  
  
 tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
 atgtacggct 300  
  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
 tacgacggca 360  
  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
 acgcggcctc 420  
  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
 gcctacctgg 480  
  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
 acgctgcagc 540  
  
 gcgcgg  
 546

<210> 1293  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 1293  
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 ggggagcccc 60  
  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
 agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcgggcc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgggacc cccaaagaca catgtgacct accaccccat ctctgacct  
gaggccacct 600

tgaggtgtg ggccctgggc ttctacctg cgagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagccctca ccctgagatg gg  
822

<210> 1294

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1294

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ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgcgag agaggagccg cggggcgccgt ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggcatga ccagtcgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcggaccc cccaaagaca catgtgaccc accaccccat ctctgaccat  
gaggccaccc 600

tgaggtgctg ggccttgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1295

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1295

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ggggagcccc 60

gcttcactgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgccgac  
acggcggtctc 420

agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcggtg  
546

<210> 1296

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1296

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacttc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180



accgggagac acagatctcc aagatcaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtct 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1297

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1297

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gggagcccc 60

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agcgacgcg 120

cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc  
tacgacggca 360

aggattacat cgcctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtct 420

agatcaccca gcgcaagtgg gagggggccc gtcaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1298

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1298

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ggccctgacc 60

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ccggccccgg 120

cgcggggagc cccgcttcac ctccagtggc tacgtggagc gcaccagtt  
cgtgaggttc 180

gacagcgacg cgcgaggtcc gaggacggag ccccgggcgc cgtggataga  
gcaagagggg 240

ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac  
ttaccgagag 300

agctcgcgga acctgcgcgg ctactacaac cagagcgagg cggggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctccagatcac ccagcgcaag tgggagggcg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggetccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtgtgtc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgtg gcttggtgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1299

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1299

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ggggagcccc 60

gcttcatctc agtgggctac gtggacggca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta cagagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaagggag  
acgctgcagc 540

gcgcgg  
546

<210> 1300

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1300

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ggcctgacc 60

gagacctggg ctggtccca ctccatgagg tatttcaca cctccgtgc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg gcaccagtt  
cgtgaggtc 180

gacagcgacg ccgcgagtcc gaggacggag cccggggcgc cgtggataga  
gcaagagggg 240

ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac  
ttaccagagc 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccga gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccacc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgtgtctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtagga 1017

<210> 1301

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1301

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ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcac ctcagtgggc tacgtggacg gcaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc cgtggataga  
gcaagagggg 240

ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtgtgtc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttccagtt ccaccatccc catcgtgggc attgtgtctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1302

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1302

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ggggagcccc 60

gcttcattgc agtgggctac gtggacggca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgccgac  
accgcgctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtggt ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1303

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1303

gctccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacggca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcggcc  
tacgacggca 360

aggattacat cgccctgaag gaggacctga gctcctggac cgcgcgggac  
accgcggtcc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1304

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1304

atgcgggtca cggcgccccg aaccctcttc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat ctcagtgggc tacgtggacg gcacccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc cgtggataga  
gcaagagggg 240

ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac  
ttaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360



aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
tgaccagttcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcttggtgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1305

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1305

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ggggagcccc 60

gcttcatttc agtgggctac gtggacggca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcttgac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcgggcc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1306

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1306

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ggggagcccc 60

gcttcatctc agtgggctac gtggacggca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtgcggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtccgc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggaag  
acgctgcagg 540

gcgcgg  
546

<210> 1307

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1307

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ggggagcccc 60

gcttcatttc agtgggctac gtggacggca ccagttcgt gaggttcgac  
agcgacggcg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccc  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagAAC  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccaggg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtccgc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1308  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1308  
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ggggagcccc 60

gcttcatctc agtgggctac gtggacggca ccagttcgt gaggttcgac  
agcgacgcgc 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1309  
<211> 546

<212> DNA  
<213> Homo sapiens

<400> 1309  
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ggggagcccc 60  
  
gtttcatctc agtgggctac gtggacggca cccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180  
  
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ctgcggaacc 240  
  
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atgtacggct 300  
  
gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcgctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1310  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1310  
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ggggagcccc 60  
  
gtttcatctc agtgggctac gtggacggca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc  
tacgacgca 360

aggattacat gcgctgaac gaggacctga gctcctggac cgcggcggac  
accgcgctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtggt ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1311

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1311

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ggggagcccc 60

gcttcatctc agtgggctac gtggacggca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtct 420

agatcaccca gcgcaagtgg gaggggcccc gtgtggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1312

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1312

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ggggagcccc 60

gcttcatttc agtgggctac gtggacggca ccagttcgt gaggttcgac  
agcgacggcg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agagggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtct 420

agatcaccca gcgcaagtgg gaggggcccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtg ctccgcagac acctggagaa cggaagag  
acgtgcagc 540

gcgcgg  
546

<210> 1313  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1313  
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ggggagccc 60

gcttcactc agtgggctac gtggacggca ccagttcgt gaggttcgac  
agcgacgcc 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtccgc  
tacgacgca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac  
accgcgctc 420

agatcaccca gcgcaagtgg gaggggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtg ctccgcagac acctggagaa cggaagag  
acgtgcagc 540

gcgcgg  
546

<210> 1314



<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1314  
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ggggagcccc 60

gcttcactc agtgggctac gtggacggca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtctggtc 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga  
gcctacctgg 480

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546

<210> 1315  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1315  
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ggggagcccc 60

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agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctgc aaggccaagg cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtatggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggtacca ccaggacgcc  
tacgacgca 360

aggattacat gcgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggtctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

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gcgcgg  
546

<210> 1316

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1316

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ggccctgacc 60

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ccggcccggc 120

cgcggggagc cccgcttcac caccgtgggc tacgtggacg acacgtgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg cggggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgctccc tccgcgggta  
ccaccagagc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgag 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttccagtg ccaccgtccc catcgtgggc attgtgtctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1317

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1317

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ccggccccgc	120			
cgcgggggagc	cccgtttcat	caccgtgggc	tacgtggacg	acacgctgtt
cgtgaggttc	180			
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gcaggagggg	240			
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tgaccgagag	300			
gacctgcgga	ccctgctccg	ctactacaac	cagagcgagg	ccgggtctca
cacctccag	360			
aatatgtatg	gctgcgacgt	ggggccggac	gggcgcctcc	tccgcgggta
ccaccaggac	420			
gcctacgacg	gcaaggatta	catcgccctg	aacgaggacc	tgagctcctg
gaccgccgcg	480			
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ggagcagctg	540			
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gaacgggaag	600			
gagacgtcgc	agcgcgcgga	ccccccaaag	acacacgtga	cccaccaccc
catctctgac	660			
catgaggcca	ccctgagggtg	ctggggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacactgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttccagaa	gtgggcagct	gtggtggtgc	cttctggaga
agagcagaga	840			
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atgggagccc	900			

tcttcccagt ccaccgtccc catcgtgggc attgttgetg gcctggctgt  
cctagcagtt 960

gtggctcatcg gagctgtggg cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1318

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1318

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gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcg gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

agcctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggcccggc gggcgccctc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggaggggcg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctggggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagccg 900

tcttccagtg ccaccgtccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgtcgtctgt atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1319

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1319

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ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgc  
ccggcccggc 120

cgcggggagc ccgcttcat caccgtgggc tacgtggagc acacgtgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

gacctcgga ccttctccg ctactacaac cagagcgagg ccgggtctca  
caccctcag 360

aatatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgctgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgctggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gctgggtgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1320

<211> 427

<212> DNA

<213> Homo sapiens

<400> 1320

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ccgagagagg 60

agccgcgggc gccgtggata gagcaggagg ggccggagta ttgggaccgg  
gagacacaga 120

tctgcaaggc caaggcacag actgaccgag aggacctgcg gacctgtctc  
cgctactaca 180

accagagcga ggccgggtct cacaccctcc agaatatgta tggctgcgac  
gtggggccgg 240

acgggcgccct cctccgcggg taccaccagg acgcctacga cggcaaggat  
tacatcgccc 300

tgaacgagga cctgagctcc tggaccgccg cggacacggc agctcagatc  
accagcgca 360

agtgggaggg ggcccgtgtg gcggagcagc tgagagccta cctggagggc  
gagtgcgtgg 420

agtggct  
427

<210> 1321

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1321

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ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tatttccaca cctccgtgtc  
ccggccccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

gacctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggcccggc gggcgccctc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgcg 480



gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccga gatacctgga  
gaacgggaag 600

gagacgtgc agcgcgcgg  
619

<210> 1322

<211> 895

<212> DNA

<213> Homo sapiens

<400> 1322

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gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgttcat caccgtgggc tacgtggagc acacgtgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

gacctgcgga ccctgtccg ctactacaac cagagcgagg ccggttctca  
caccctcag 360

aatatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccga gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atggg 895

<210> 1323

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1323

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ggggagcccc 60

gcttcacac cgtagggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccc 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctgc aaggccaagg cacagactga ccgagaggac  
ctgcggaccc 240

tgtctcgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtacca ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgaggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

aggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1324

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1324

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ggcctgacc 60

gagacctggg ctggtctcca ctccatgagg tatttccaca cctccgtgtc  
ccggccccgc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcg gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

agcctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggta  
tgaccagtac 420

gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggaggggcg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctggggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagccg 900

tcttccagtg ccaccgtccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgtgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1325

<211> 945

<212> DNA

<213> Homo sapiens

<400> 1325

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cggggagccc 60

cgcttcatca ccgtgggcta cgtggacgac acgtgttctg tgaggttcga  
cagcgacgcc 120

gcgagtcgga gagaggagcc gcgggcgccc tggatagagc aggaggggcc  
ggagtattgg 180

gaccgggaga cacagatctg caaggccaag gcacagactg accgagagga  
cctgcgagcc 240

ctgtccgct actacaacca gagcgaggcc gggcttcaca ccctccagag  
catgtacggc 300

tgcgacgtgg ggccggacgg gcgcctctc cgcgggcata accagtacgc  
ctacgacggc 360

aaggattaca tcgccctgaa cgaggacctg cgctcctgga ccgccggga  
cacggcggct 420

cagatcaccc agcgcgaagtg ggaggcggcc cgtgtggcgg agcagctgag  
agcctacctg 480

gaggggcagtg gcgtggagtg gctccgcaga tacctggaga acgggaagga  
gacgctgcag 540

cgcgccggacc ccccaaagac acacgtgacc caccacccca tctctgacca  
tgaggccacc 600

ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg  
gcagcgggat 660

ggcgaggacc aaactcagga cactgagctt gtggagacca gaccagcagg  
agatagaacc 720

ttccagaagt gggcagctgt ggtggtgcct tctggagaag agcagagata  
cacatgccat 780

gtacagcatg aggggctgcc gaagccctc accctgagat gggagccctc  
ttcccagtc 840

accgtcccca tcgtgggcat tgttgctggc ctggctgtcc tagcagttgt  
ggtcatcgga 900

gctgtggtcg ctgctgtgat gtgtaggagg aagagctcag gtgga  
945

<210> 1326

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1326

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ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttcacac cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcac caccgtgggc tacgtggacg acacgtgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
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ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggta  
ccaccagagc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtgtgtc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttccagtc ccaccgtccc catcgtgggc attgtgtctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgttgt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1327

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1327

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ccggccccgc	120			
cgcgggggagc	cccgttcat	caccgtgggc	tacgtggacg	acacgctgtt
cgtgaggttc	180			
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gcaggagggg	240			
ccggagtatt	gggaccggga	gacacagatc	tgcaaggcca	aggcacagac
tgaccgagag	300			
gacctgcgga	ccctgctccg	ctactacaac	cagagcgagg	ccgggtctca
cacctccag	360			
aatatgtatg	gctgcgacgt	ggggccggac	gggcgcctcc	tccgcgggta
ccaccagcac	420			
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gaccgccgcg	480			
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ggagcagctg	540			
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gaacgggaag	600			
gagacgtcgc	agcgcgcgga	ccccccaaag	acacacgtga	cccaccaccc
catctctgac	660			
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cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacactgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttccagaa	gtgggcagct	gtggtggtgc	cttctggaga
agagcagaga	840			
tacacatgcc	atgtacagca	tgaggggctg	ccgaagcccc	tcacctgag
atgggagccc	900			

tcttcccagt ccaccgtccc catcgtgggc attgttctgt gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgttagga ggaagagctc  
aggtgga 1017

<210> 1328

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1328

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ggggagcccc 60

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agcgacgcgc 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctgc aaggccaagg cacagactga ccgagaggac  
ctcgggacc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtatggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggtacca ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggtct 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

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acgctgcagc 540

gcgcgg

546

<210> 1329

<211> 1017



<212> DNA  
<213> Homo sapiens

<400> 1329  
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ggccctgacc 60  
  
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ccggcccggc 120  
  
cgcgggggag cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180  
  
gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240  
  
ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300  
  
agcctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360  
  
agcatgtacg gctgcgacgt ggggcccggc gggcgctcc tccgcgggca  
taaccagtac 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg  
gaccgccgcg 480  
  
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540  
  
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccacc  
catctctgac 660  
  
catgaggcca ccctgagggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780  
  
ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcacog gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1330

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1330

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gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggagc acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggcctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgtgtctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1331

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1331

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ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccgcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

gacctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgccctcc tccgcgggta  
ccaccagcac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggaggggcg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcttggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1332

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1332

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ggccctgacc 60

gagacctggg ctggctccca ctccatgag tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtc gagagaggag ccgcgggagc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

gacctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacct ggggccggac gggcgctcc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgag 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggaggggca gtgcgtggag tggctccga gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgagg  
619

<210> 1333

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1333

gctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc  
ggggagcccc 60

gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc  
ctgcggaccc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggtacca ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcgggcc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1334

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1334

gctccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctgc aagaccaaca cacagactga ccgagaggac  
ctgcggaccc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggtacca ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1335

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1335

gctccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagttttggg 180

accgggagac acagatctgc aaggccaagg cacagactga ccgagaggac  
ctgcggaccc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtatggtc 300

gcgacgtggg gccggacggg cgctctctcc gcgggtacca ccaggacgcc  
tacgacgga 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1336  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 1336  
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ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggagc acacgctgtt  
cgtgaggttc 180

gacagcgagc ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctcag 360

aatatgtatg gctgcgacgt ggggccggac gggcgccctcc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcgcgc 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg ccggtgaggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgg  
619

<210> 1337  
<211> 546  
<212> DNA  
<213> Homo sapiens



<400> 1337

gctccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctgc aaggccaagg cacagactga ccgagaggac  
ctgcggaccc 240

tgtctcgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacgct 300

gcgacgtggg gccggacggg cgctctctcc gcgggtacca ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggtct 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1338

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1338

gctccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc  
ctgcgggacc 240

tgtctcgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcccgggac  
acggcggctc 420

agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1339

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1339

gtcccaactc catgaggtat ttccacacct ccgtgtcccg gcccgggccg  
ggggagcccc 60

gcttcatcac cgtggggtac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcccgt ggatagagca ggagggggccg  
gagtattggg 180

accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc  
ctgcgggacc 240

tgtctcgcta ctacaaccag agcgaggccg ggtctcacac cctccaggag  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcggggtatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggtct 420

agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggsaaggag  
acgctgcagc 540

gcgcgg

546

<210> 1340

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1340

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ggggagcccc 60

gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggacc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtacca ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggtct 420

agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggsaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1341  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1341  
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ggggagcccc 60

gttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc  
ctgcgggacc 240

tgtctcgcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatctccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1342  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1342  
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 ggggagcccc 60  
  
 gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
 agcgacgccg 120  
  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
 gagtattggg 180  
  
 accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc  
 ctgcggaccc 240  
  
 tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
 atgtatggct 300  
  
 gcgacgtggg gccggacggg cgctctctcc gcgggtacca ccaggacgcc  
 tacgacggca 360  
  
 aggattacat cgccctgaac gaggacctga gctcctggac cgccggggac  
 acgcggcctc 420  
  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
 gcctacctgg 480  
  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
 acgctgcagc 540  
  
 gcgcgg  
 546

<210> 1343  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 1343  
 atgcgggtca cggcgccccc aaccgtctc ctgtctctct ggggggcagt  
 ggccctgacc 60  
  
 gagacctggg ccggctccca ctccatgagg tattttctaca ccgcatgtc  
 ccggccccgg 120

cgcggggagc	cccgttcat	cgcagtgggc	tacgtggacg	acaccagtt
cgtaggttc	180			
gacagcgacg	ccgcgagtc	gaggacggag	ccccgggcgc	catggataga
gcaggagggg	240			
ccggagtatt	gggaccggaa	cacacagatc	ttcaagacca	acacacagac
ttaccgagag	300			
agcctgcgga	acctgcgcgg	ctactacaac	cagagcgagg	ccgggtctca
catcatccag	360			
aggatgtatg	gctgcgacct	ggggcccgac	gggcgcctcc	tccgcgggca
tgaccagtcc	420			
gcctacgacg	gcaaggatta	catcgccctg	aacgaggacc	tgagctcctg
gaccgcggcg	480			
gacaccgcgg	ctcagatcac	ccagcgcaag	tgggaggcgg	cccgtgtggc
ggagcagctg	540			
agagcctacc	tggagggcct	gtgcgtggag	tggctccgca	gatacctgga
gaacgggaag	600			
gagacgtgc	agcgcgcgga	ccccccaaag	acacacgtga	cccaccaccc
cgtctctgac	660			
catgaggcca	ccctgaggtg	ctgggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacactgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttcagaa	gtgggcagct	gtggtggtgc	cttctggaga
agagcagaga	840			
tacacatgcc	atgtacagca	tgaggggctg	ccgaagcccc	tcaccctgag
atgggagcca	900			
tcttccagct	ccaccatccc	catcgtgggc	attgttctg	gcctggctgt
cctagcagtt	960			
gtggtcatcg	gagctgtggt	cgctactgtg	atgtgtagga	ggaagagctc
aggtgga	1017			

<210> 1344  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1344  
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gggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgccctctcc gcgggcatga ccagtcgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcgctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcttacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1345  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1345  
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ggccctgacc 60

gagacctggg	ccggetccca	ctccatgagg	tattttctaca	ccgccatgtc
ccggcccggc	120			
cgcggggagc	cccgttcat	cgcagtgggc	tacgtggacg	acaccagtt
cgtgaggttc	180			
gacagcgacg	ccgcgagtcc	gaggacggag	ccccgggcgc	catggataga
gcaggagggg	240			
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ttaccgagag	300			
agcctgcgga	acctgcgcgg	ctactacaac	cagagcgagg	ccgggtctca
catcatccag	360			
aggatgtatg	gctgcgacct	ggggcccgc	gggcgcttcc	tccgcgggca
taaccagtac	420			
gcctacgacg	gcaaggatta	catcgccctg	aacgaggacc	tgagctcctg
gaccgcggcg	480			
gacaccgcgg	ctcagatcac	ccagcgcaag	tgggaggcgg	cccgtgtggc
ggagcagctg	540			
agagcctacc	tggagggcct	gtgcgtggag	tggctccgca	gatacctgga
gaacgggaag	600			
gagacgctgc	agcgcgcgga	ccccccaaag	acacacgtga	cccaccaccc
cgtctctgac	660			
catgaggcca	ccctgagggtg	ctgggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacactgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttcagaa	gtgggcagct	gtggtggtgc	cttctggaga
agagcagaga	840			
tacacatgcc	atgtacagca	tgaggggctg	ccgaagcccc	tcaccctgag
atgggagcca	900			
tcttccagtt	ccaccatccc	catcgtgggc	attgttgctg	gcctggctgt
cctagcagtt	960			



gtggtcatcg gagctgtggt cgtactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1346

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1346

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ggccctgacc 60

gagacctggg ccggetccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgagggttc 180

gacagcgacg ccgcgagtcg gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgac gggcgctcc tccgcgggca  
tgaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg ccggtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttccagtt ccaccatccc catcgtgggc attgttgetg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1347

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1347

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ggccctgacc 60

gagacctggg ccggtcccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag cccggggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccagagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct gggggccgac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtagga 1017

<210> 1348

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1348

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ggccctgacc 60

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ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggagc acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca  
caccctccag 360

agcatgtacg gctgcgacct gggggccgac gggcgccctc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttccagtt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1349

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1349

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ggccctgacc	60			
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ccggcccggc	120			
cgcggggagc	cccgttcat	cgcagtgggc	tacgtggacg	acaccagtt
cgtgaggttc	180			
gacagcgacg	ccgcgagtcc	gaggacggag	cccggggcgc	catggataga
gcaggagggg	240			
ccggagtatt	gggaccggaa	cacacagatc	ttcaagacca	acacacagac
ttaccgagag	300			
agcctgcgga	acctgcgcgg	ctactacaac	cagagcgagg	ccgggtctca
catcatccag	360			
aggatgtatg	gctgcgacct	ggggcccgcg	gggcgcctcc	tccgcgggca
taaccagttc	420			
gcctacgacg	gcaaggatta	catcgccctg	aacgaggacc	tgagctcctg
gaccgcggcg	480			
gacaccgcgg	ctcagatcac	ccagcgcaag	tgggaggcgg	cccgtgtggc
ggagcagctg	540			
agagcctacc	tggagggcct	gtgcgtggag	tggctccgca	gatacctgga
gaacgggaag	600			
gagacgtcgc	agcgcgcgga	ccccccaaag	acacacgtga	cccaccaccc
cgtctctgac	660			
catgaggcca	ccctgaggtg	ctggggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacactgagc	ttgtgggagac
cagaccagca	780			
ggagatagaa	ccttccagaa	gtgggcagct	gtggtggtgc	cttctggaga
agagcagaga	840			
tacacatgcc	atgtacagca	tgaggggctg	ccgaagcccc	tcaccctgag
atgggagcca	900			

tcttcccagt ccaccatccc catcgtgggc attgttgetg gcctggctgt  
cctagcagtt 960

gtggctcatcg gagctgtggg cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1350

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1350

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ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tatttctaca ccgcatgtc  
ccggcccgtc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgccctc tccgcgggca  
tgaccagtc 420

gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttccagtg ccaccatccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1351

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1351

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc ccgccttcac cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatcag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcgcg 480

gacaccgcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagcgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gctgggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1352

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1352

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180



gacagcgacg ccgcgagtc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg cggggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgcac gggcgccctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggcccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg goctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgtactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1353

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1353

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ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcg 120

cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcatat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1354

<211> 525

<212> DNA

<213> Homo sapiens

<400> 1354

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ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgcgac  
accgcggtct 420

agatcaccca gcgcaagtgg gaggcgggcc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggga  
525

<210> 1355

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1355

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgac gggcgccctcc tccgcgggca  
tgaccagttcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcttggtgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1356

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1356

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ggccctgacc 60

gagacctggg ccggctccca ctccatgag tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc	cccgccttc	cgagtgagg	tacgtggagc	acaccaggt
cgtagagttc	180			
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gcaggagggg	240			
ccggagtatt	gggaccggaa	cacacagatc	ttcaagacca	acacacagac
ttaccgagag	300			
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catcatccag	360			
aggatgtacg	gctgcgacgt	ggggccggac	gggcgcctcc	tccgcgggca
taaccagtac	420			
gcctacgagc	gcaaggatta	catcgccctg	aacgaggacc	tgagctcctg
gaccgcggcg	480			
gacaccgcgg	ctcagatcac	ccagcgcaag	tgggaggcgg	cccgtgtggc
ggagcagctg	540			
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gaacgggaag	600			
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cgtctctgac	660			
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cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacactgagc	ttgtggagac
cagaccagca	780			
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agagcagaga	840			
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atgggagcca	900			
tcttccagct	ccaccatccc	catcgtgggc	attgttctgt	gcctggctgt
cctagcagtt	960			
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<210> 1357  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1357  
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ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgccctctcc gcgggcatga ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gtcctggac cgcggcggac  
accgcgctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1358  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1358  
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ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtcgccg  
tacgacgca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtgagga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1359

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1359

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gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccgcc 120

cgcggggagc cccgcttcac cgagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg cggggtctca  
catcatccag 360

aggatgtatg gctgcgacct gggggccgac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttccagtc ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1360

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1360



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gcttcactgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagc  
atgtacggct 300

gcgagctggg gcccgacggg cgctcctcc gcgggcatga ccagtcgccg  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcggtg  
546

<210> 1361

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1361

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ggggagcccc 60

gcttcactgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagc  
atgtacggct 300

gcgacgtggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtct 420

agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1362

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1362

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gggagcccc 60

gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcgc 120

cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaagagg  
acgctgcagc 540

gcgcgg  
546

<210> 1363

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1363

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ggggagcccc 60

gcttcatcg agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgctg 120

cgagtccgag gaaggagccg cgggcgccc atgtagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcatat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaagagg  
acgctgcagc 540

gcgcgg  
546

<210> 1364  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1364  
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ggggagcccc 60  
  
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agcgacgcg 120  
  
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatgct 300  
  
gcgacctggg gcccgacggg cgccctctcc gcgggcatga ccagtccgcc  
tacgacgca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1365  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1365

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ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1366

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1366

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgcgac  
accgcggtc 420

agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1367

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1367

gtcccaactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtttggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gtcctctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggsaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1368

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1368

gtcccaactc catgaggtat ttctacaccg ccattgtccg gcccgccgc  
ggggagcccc 60

gttctatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gtcctctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggsaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1369  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1369  
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ggggagcccc 60

gttcatctc agtgggctac gtggacgaca cgagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgcggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1370  
<211> 546  
<212> DNA  
<213> Homo sapiens



<400> 1370  
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 ggggagcccc 60  
  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
 agcgacgcgc 120  
  
 cgagtcgag agaggagccc cgggcgccat ggatagagca ggaggggccg  
 gaatattggg 180  
  
 accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc  
 ctgcggaacc 240  
  
 tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagg  
 atgtatggct 300  
  
 gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc  
 tacgacgca 360  
  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
 accgcggctc 420  
  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
 gcctacctgg 480  
  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
 acgctgcagc 540  
  
 gcgcgg  
 546

<210> 1371  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 1371  
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 ggggagcccc 60  
  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
 agcgacgcgc 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctctctggac cgcgcgggac  
accgcggtct 420

agatcaccca gcgcaagtgg gaggcgggcc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1372

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1372

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg cggggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgac gggcgctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgg  
619

<210> 1373

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1373

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ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagtctgt gaggttcgac  
agcgacgccc 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcatat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgc  
tacgacgga 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1374

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1374

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ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcgcta ctacaaccag agcgaggccg ggtctcacat catccagagc  
atgtacggt 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtcgcc  
tacgacgga 360

aggattacat gcgcctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1375  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1375  
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ggccctgacc 60  
  
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ccggcccggc 120  
  
cgcgggggag cccgcttcat cgcagtgggc tacgtggagc acaccagtt  
cgtgaggttc 180  
  
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gcaggagggg 240  
  
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ttaccgagag 300  
  
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caccctccag 360  
  
agcatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagtac 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcgcgc 480  
  
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg ccctgtgtgc  
ggagcagctg 540  
  
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgtcgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660  
  
catgaggcca ccctgaggtg ctgggcccctg ggcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagccg 900

tcttccagtt ccaccgtccc catcgtgggc attgttctg gcttggtgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1376

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1376

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gggagcccc 60

gcttcatcg agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcg 120

cgagtccgag gacggagccc cgggcgcat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggt 300

gcgagctggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1377  
<211> 564  
<212> DNA  
<213> Homo sapiens

<400> 1377  
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atgtcccggc 60  
  
ccggccgcgg ggagccccgc ttcatcgcag tgggtacgt ggacgacacc  
cagttcgtga 120  
  
ggttcgacag cgacgccggc agtccgagga cggagccccg ggcccatgg  
atagagcagg 180  
  
aggggccgga gtattgggac cggaacacac agatcttcaa gaccaacaca  
cagacttacc 240  
  
gagagagcct gcggaacctg cgcggctact acaaccagag cgaggccggg  
tctcacatca 300  
  
tccagaggat gtatggctgc gacctggggc ccgacggggc cctcctccgc  
gggcatgacc 360  
  
agttcgcta cgacggcaag gattacatcg ccctgaacga ggacctgagc  
tcctggaccg 420  
  
cggcggacac cgcggtcag atcaccagc gcaagtggga ggccgccgt  
gtggcggagc 480  
  
agctgagagc ctacctggag ggcgagtgcg tggagtggct ccgcagatac  
ctggagaacg 540  
  
ggaaggagac gctgcagcgc gcgg  
564

<210> 1378  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1378

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

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<210> 1379

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1379

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agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180



accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgcgac  
accgcggctc 420

agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1380

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1380

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agcgacgccg 120

cgagtccgag gacggagccc cgggcccatt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcgacta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gtcctctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

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acgctgcagc 540

gcgcgg

546

<210> 1381

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1381

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agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gtcctctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggsaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1382  
<211> 548  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (547)..(547)  
<223> n is a, c, g, or t

<400> 1382  
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ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgcgac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgdna  
548

<210> 1383  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1383  
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ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgcgc 120

cgagtcgcg gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtc ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1384  
<211> 912  
<212> DNA  
<213> Homo sapiens

<400> 1384

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atttctacac 60

cgccatgtcc cggcccggcc gcggggagcc ccgcttcacg gcagtgggct  
acgtggacga 120

caccagttc gtgaggttcg acagcgacgc cgcgagtcgg aggacggagc  
cccgggcgcc 180

atggatagag caggaggggc cggagtattg ggaccggaac acacagatct  
tcaagacca 240

cacacagact taccgagaga gcctgcggaa cctgcgcggc tactacaacc  
agagcgaggc 300

cggtctcac atcatccaga ggatgtatgg ctgcgacctg gggcccgacg  
ggcgctcct 360

ccgcgggcat gaccagtccg cctgcgacgg caaggattac atcgccctga  
acgaggacct 420

gagtccttg accgcggcgg acaccgcggc tcagatcacc cagcgcaagt  
gggaggcggc 480

ccgtgtggcg gacgagctga gagcctacct ggagggcctg tgcgtggagt  
ggctccgcag 540

atacctggag aacgggaagg agacgctgca gcgcgcggac cccccaaga  
cacacgtgac 600

ccaccacccc gtctctgacc atgaggccac cctgagggtg tgggcccctg  
gcttctaccc 660

tgcggagatc acaactgacct ggcagcgga tggcgaggac caaactcagg  
aactgagct 720

tgtggagacc agaccagcag gagatagaac cttccagaag tgggcagctg  
tggtggtgcc 780

ttctggagaa gagcagagat acacatgcc a tgtacagcat gaggggctgc  
cgaagccct 840

cacctgaga tgggagccat cttcccagtc caccatcccc atcgtgggca  
ttgttgctgg 900

cctggctgtc ct  
912

<210> 1385  
<211> 1012  
<212> DNA  
<213> Homo sapiens

<400> 1385  
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ggccctgacc 60

gagacctggg ctggtccca ctccatgagg tatttctaca cgcctatgc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgac gggcgctcc tccgcgggca  
tgaccagtc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctacagatcac ccagcgcaag tgggaggcgg ccggtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccga gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga cccccaaag acacacgtga cccaccacc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttccagtt ccaccatccc catcgtgggc attgttgetg gcttggtgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc ag  
1012

<210> 1386

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1386

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ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tatttctaca ccgcatgtc  
ccggccccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccagagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
tgaccagtcc 420

gctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccga gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccacc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agggtga 1017

<210> 1387

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1387

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agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240



tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtct 420

agatcaccca gcgcaagtgg gaggcgggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1388

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1388

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ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1389

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1389

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gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc ccgcgttcat ctcagtgggc tacgtggagc acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc cgtggataga  
gcaggagggg 240

ccgaggtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

gacctgcgga ccctgtccg ctactacaac cagagcgagg cgggtctca  
caccatccag 360

aggatgtctg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggcctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgtgtctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
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<210> 1390

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1390

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ccgccccggc 120

cgcgggggag cccgcttcat ctcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

gacctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgccctcc tccgcgggta  
ccaccagcac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcgcgcg 480

gacacggcgcg ctcagatcac ccagcgcaag tgggaggcgcg cccgtgtggc  
ggagcagctg 540

agagcctacc tggaggggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtgcg agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcttggtgtg  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1391

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1391

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ggccctgacc 60

gagacctggg ctggtctcca ctccatgag tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc	cccgttcat	ctcagtgggc	tacgtggacg	acaccagtt
cgtaggttc	180			
gacagcgacg	ccgcgagtc	gaggacggag	ccccgggcgc	cgtggataga
gcaggagggg	240			
ccggagtatt	gggaccggga	gacacagatc	tccaagacca	acacacagac
ttaccgagag	300			
gacctgcgga	ccctgctccg	ctactacaac	cagagcgagg	ccgggtctca
caccatccag	360			
aggatgtctg	gctgcgacgt	ggggccggac	gggcgcctcc	tccgcgggta
taaccagttc	420			
gcctacgacg	gcaaggatta	catcgccctg	aacgaggacc	tgagctcctg
gaccgcggcg	480			
gacaccgcgg	ctcagatcac	ccagcgcaag	tgggaggcgg	cccgtgtggc
ggagcaggac	540			
agagcctacc	tggagggcac	gtgcgtggag	tggctccgca	gacacctgga
gaacgggaag	600			
gagacgtcgc	agcgcgcgga	ccccccaaag	acacatgtga	cccaccaccc
catctctgac	660			
catgaggcca	ccctgaggtg	ctgggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacaccgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttccagaa	gtgggcagct	gtggtggtgc	cttctggaga
agagcagaga	840			
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atgggagcca	900			
tcttccagct	ccaccatccc	catcgtgggc	attgttctg	gcctggctgt
cctagcagtt	960			
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aggtgga	1017			

<210> 1392  
<211> 619  
<212> DNA  
<213> Homo sapiens

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ggccctgacc 60  
  
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ccggccccggc 120  
  
cgcgggggagc cccgcttcat ctcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180  
  
gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc cgtggataga  
gcaggagggg 240  
  
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300  
  
gacctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccatccag 360  
  
aggatgtctg gctgcgacgt ggggcccggac gggcgccctc tccgcgggta  
taaccagttc 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480  
  
gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540  
  
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gaacgggaag 600  
  
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619

<210> 1393  
<211> 1017  
<212> DNA  
<213> Homo sapiens  
  
<400> 1393

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ccggcccggc 120

cgcggggagc cccgcttcat ctcaagtggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
ttaccgagag 300

aactgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca  
caccctcag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcaatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga cccccaaag acacatgtga cccaccacc  
catctctgac 660

catgaggcca ccttgagggtg ctgggcccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ctttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgetg gcctggctgt  
cctagcagtt 960

gtggtcacg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1394

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1394

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ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
ttaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggcccggac gggcgccctc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaaag acacatgtga cccaccaccc  
catctctgac 660



catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttccagtg ccaccgtccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgtgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1395

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1395

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gcttcattctc agtgggctac gtggacgaca cgcagtctctg gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacgct 300

gcgagctggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctga gctcctggac agcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1396

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1396

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gcttcattc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggt 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat gcgcctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1397  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1397  
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ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctgc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcggg gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1398  
<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 1398  
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ggggagcccc 60

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agcgacgccg 120

cgagtcggag agaggagccg cgggcgccgt ggatagagca ggagggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactta ccgagagaac  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcggaccc cccaaagaca catgtgacct accaccccat ctctgacct  
gaggccaccc 600

tgagggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga  
gacagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagccctca ccctgagatg gg  
822

<210> 1399

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1399

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agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1400

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1400

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ggggagcccc 60

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agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
ggatattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagAAC  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtcg 420

agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgG ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1401

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1401

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ggggagcccc 60

gcttcatttc agtggggtac gtggacgaca cgagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactta ccgagagAAC  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcattgt cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgctgcagc 540

gcgcgg  
546

<210> 1402

<211> 548

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (547)..(547)

<223> n is a, c, g, or t

<400> 1402

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ggggagcccc 60

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agcgacgcgg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactta ccgagagaa  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggag  
accgcggctc 420

agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgdna  
548

<210> 1403  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1403  
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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg ccggtgtggc  
ggagcagctg 540

agaacctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600



gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtggggcagct gtggtgtgac cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttctgt gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1404

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1404

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gagacctggg ccggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctacgtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgctgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttcagaa gtgggcagct gtggtgtgtc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
agggtga 1017

<210> 1405

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1405

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ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagtctct gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggcca  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgectcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat gcgctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtct 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtctgcagc 540

gcgcgg  
546

<210> 1406

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1406

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gagacctggg ccggtcccca ctccatgagg tatttctaca cctccgtgtc  
ccggccccgc 120

cgcggggagc ccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggga gacacagatc tccaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgcagct ggggcccggac gggcgccctcc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg ccggtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga ccccccaaag acacatgtga cccaccacc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttctg gcttggtgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1407

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1407

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ccggcccggg 120

cgcgggggagc cccgcttcat ctcaagtgggc tacgtggagc acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcaatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggtccgca gatacctgga  
gaacgggaag 600

gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtgggtcatcg gagctgtggt cgtgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1408

<211> 993

<212> DNA

<213> Homo sapiens

<400> 1408

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cttcatctca 120

gtgggctacg tggacgacac gcagttcgtg aggttcgaca gcgacgccgc  
gagtccgaga 180

gaggagccgc gggcgccgtg gatagagcag gaggggccg aatattggga  
ccggaacaca 240

cagatctgca agaccaacac acagactgac cgagagagcc tgcggaacct  
gcgcggctac 300

tacaaccaga gcgaggcccg gtctcacacc ctccagagca tgtacggctg  
cgacgtggg 360

ccgacggggc gcctcctccg cgggcataac cagttcgctt acgacggcaa  
ggattacatc 420

gccctgaacg aggacctgag ctctctggacc gcggcggaca ccgcggctca  
gatcaccag 480

cgcaagtggg agggcgcccg tgtggcggag cagctgagaa cctacctgga  
gggcacgtgc 540

gtggagtggc tccgcagata cctggagaac ggggaaggaga cgctgcagcg  
cgcggacccc 600

caaagacac atgtgacctc ccacccatc tctgacctg aggccaccct  
gaggtgctgg 660

gccttgggct tctaccctgc ggagatcaca ctgacctggc agcgggatgg  
cgaggacca 720

actcaggaca ccgagcttgt ggagaccaga ccagcaggag acagaacctt  
ccagaagtgg 780

gcagctgtgg tggtgcccttc tggagaagag cagagatata catgccatgt  
acagcatgag 840

gggtgcccga agccccctcac cctgagatgg gagccatctt cccagtccac  
cgtcccatc 900

gtgggcattg ttgctggcct ggctgtccta gcagttgtgg tcatcggagc  
tgtggtcgct 960

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993

<210> 1409

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1409

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gagacctggg ccggtcccca ctccatgag tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcac ctacgtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

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gaacgggaag 600

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catctctgac 660

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cacactgacc 720

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cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtgtgtc cttctggaga  
agagcagaga 840

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cctagcagtt 960

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<210> 1410

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1410

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cgcggggagc cccgcttcat ctcagtgggc tacgtggagc acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240



ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccacc  
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cacactgacc 720

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cagaccagca 780

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agagcagaga 840

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atgggagcca 900

tcttccagtc ccaccgtccc catcgtgggc attgtgtgtg gcctggctgt  
cctagcagtt 960

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aggtgga 1017

<210> 1411

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1411

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ccggccccgc	120			
cgcgggggagc	cccgttcat	ctcagtgggc	tacgtggacg	acacgcagtt
cgtgaggttc	180			
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gcaggagggg	240			
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tgaccgagag	300			
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cacttgccag	360			
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taaccagtcc	420			
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gaccgcggcg	480			
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gaacgggaag	600			
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cacactgacc	720			
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cagaccagca	780			
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agagcagaga	840			
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atgggagcca	900			

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<210> 1412

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1412

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ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttccagtg ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

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<210> 1413

<211> 413

<212> DNA

<213> Homo sapiens

<400> 1413

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cagacttacc 120

gagagagcct gcggaacctg cgcggctact acaaccagag cgaggccggg  
tctcacacc 180

tccagaggat gtacggctgc gacgtggggc cggacgggcg cctcctccgc  
gggcatgacc 240

agtcgcgcta cgacggcaag gattacatcg cctgaacga ggacctgagc  
tcctggaccg 300

cgcgcgacac cgcggctcag atcaccagc gcaagtggga ggcggcccg  
gtggcggagc 360

agctgagaac ctacctggag ggcacgtgcg tggagtggct cgcagatac ctg  
413

<210> 1414  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1414  
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ccggcccggc 120

cgcgggggag cccgcttcat ctcagtgggc tacgtggagc acacgcagtt  
cgtgaggttc 180

gacagcgagc ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

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caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
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gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

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ggagcagcgg 540

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gaacgggaag 600

gagacgtcgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggcccctg ggcttctacc ctgcggagat  
cacactgacc 720

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cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttccagtt ccaccgtccc catcgtgggc attgttctgt gcttggtgtg  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1415

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1415

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ccggcccggc 120

cgcggggagc ccgcttcat ctcagtgggc tacgtggagc acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcttcggga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtctg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggtccgca gatacctgga  
gaacgggaag 600

gagacgtgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
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catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgtg gcttggtgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
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<210> 1416

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1416

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ccggcccggc 120

cgcggggagc cccgcttcac ctacgtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

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cagaccagca 780

ggagacagaa ccttcagaa gtgggcagct gtggtgtgac cttctggaga  
agagcagaga 840

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atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1417

<211> 677

<212> DNA

<213> Homo sapiens

<400> 1417

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ggagccgcgg 120

gcgccgtgga tagagcagga ggggccgga tattgggacc ggaacacaca  
gatctgcaag 180

accaacacac agacttaccg agagagcctg cggaacctgc gcggctacta  
caaccagagc 240

gaggccgggt ctcacaccct ccagaggatg tacggctgcg acgtggggcc  
ggacgggcgc 300

ctctcccgcg ggcataacca gttcgctac gacggcaagg attacatcgc  
cctgaacgag 360

gacctgagct cctggaccgc gccggacacc gcggctcaga tcaccagcg  
caagtgggag 420

gcggcccgtg tggcggagca gccgagaacc tacctggagg gcacgtgcgt  
ggagtggctc 480

cgcagatacc tggagaacgg gaaggagacg ctgcagcgcg cggaaccccc  
aaagacacat 540

gtgaccaccc accccatctc tgaccatgag gccaccctga ggtgctgggc  
cctgggcttc 600

taccctgcgg agatcacact gacctggcag cgggatggcg aggaccaaac  
tcaggacacc 660

gagcttgtgg agaccag  
677

<210> 1418

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1418

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agcgacgcgg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
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accgcggtc 420

agatcaccca gcgcaagtgg gaggcgggcc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
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gcgcgg  
546

<210> 1419

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1419

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agcgacggcg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc  
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aggattacat cgccctgaac gaggacctga gtccttgga cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga  
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546

<210> 1420

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1420

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agcgacggcg 120

cgagtccgag agaggagccg cgggcggcgt ggatagagca ggagggggccg  
gaatattggg 180

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tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
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gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

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accgcggtc 420

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acctacctgg 480

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gcgcgg  
546

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<212> DNA  
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cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctcggaacc 240

tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggcatga ccagtctgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagagag  
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gcgcgg  
546

<210> 1422  
<211> 546

<212> DNA  
<213> Homo sapiens

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agcgacgccg 120  
  
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gagtattggg 180  
  
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ctgcggaacc 240  
  
tgcgcggtc ctacaaccag agcgaggccg ggtctcacac cctccacagg  
atgtacggct 300  
  
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tacgacgca 360  
  
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accgcgctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
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546

<210> 1423  
<211> 619  
<212> DNA  
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ccggcccggc 120

cgcggggagc cccgcttcac ctacgtgggc tacgtggacg acacgcagtt  
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gacagcgacg ccgcgagtcg gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtaag gctgcgacgt ggggccggac gggcgccctc tccgcgggta  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcg  
619

<210> 1424

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1424

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agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
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gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagagg  
acgctgcagc 540

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546

<210> 1425

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1425

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agcgacgcg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagagag  
acgctgcagc 540

gcgcgg  
546

<210> 1426

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1426

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agcgacgcgc 120

cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatctac aagaccaaca cacagactta ccgagagaac  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagagag  
acgctgcagc 540

gcgcgg  
546



<210> 1427  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1427  
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ggggagcccc 60  
  
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agcgacgccg 120  
  
cgagtcgcag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180  
  
accgggagac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240  
  
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc  
tacgacgca 360  
  
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accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480  
  
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acgctgcagc 540

gcgcgg  
546

<210> 1428  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1428

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ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cggcgcccggt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcgagc  
accgcgctc 420

agatcacccg gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1429

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1429

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccg 120

cgcggggagc cccgcttcat ctcaagtggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg cggggtctca  
caccctccag 360

agcacgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg goctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgtcgtctgt atgtgtagga ggaagagttc  
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<210> 1430

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1430

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gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgectcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgccgac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc ttgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1431

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1431

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gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggcataa ccagttcgcc  
tacgacggca 360

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accgcggctc 420

agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1432

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1432

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ggccctgacc 60

gagacctggg cgggctccca ctccatgagg tatttcaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcac caccgtgggc tacgtggacg acacgtgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcy 480

gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggaggggcg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccacc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtgtgac cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgtgtctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
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<210> 1433

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1433

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ccggcccggc	120			
cgcggggagc	cccgttcat	caccgtgggc	tacgtggacg	acacgctgtt
cgtgaggttc	180			
gacagcgacg	ccacgagtcc	gaggaaggag	ccgcgggcgc	catggataga
gcaggagggg	240			
ccggagtatt	gggaccggga	gacacagatc	tccaagacca	acacacagac
ttaccgagag	300			
agcctgcgga	acctgcgcgg	ctactacaac	cagagcgagg	ccgggtctca
caccctccag	360			
aggatgtacg	gctgcgacgt	ggggccggac	gggcgcctcc	tccgcgggca
taaccagtac	420			
gcctacgacg	gcaaggatta	catcgccctg	aacgaggacc	tgcgtctctg
gaccgcccgc	480			
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gaacgggaa	600			
gacaagctgg	agcgcgctga	ccccccaaag	acacacgtga	cccaccaccc
catctctgac	660			
catgaggcca	ccctgagggtg	ctgggccctg	ggtttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacactgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttcagaa	gtgggcagct	gtggtggtgc	cttctggaga
agagcagaga	840			
tacacatgcc	atgtacagca	tgaggggctg	ccgaagcccc	tcaccctgag
atgggagccg	900			
tcttcccagt	ccaccgtccc	catcgtgggc	attgttgctg	gcctggctgt
cctagcagtt	960			

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<210> 1434

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1434

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gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcgga  
acggcggctc 420

agatctccca gcgcaagttg gaggcgcccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaagggac  
aagctggagc 540

gcgtgacccc cccaaagaca cactgacccc accaccccat ctctgaccat  
gaggccaccc 600

tgaggtgctg ggccctgggt ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga  
gatagaacct 720



tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagccctca ccctgagatg gg  
822

<210> 1435

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1435

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ggccctgacc 60

gagacctggg ctggtctcca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggaggggca gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttccagtg ccaccgtccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1436

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1436

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gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggagc acacgtgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctcag 360

agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1437

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1437

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ccggccccgg 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg cggggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggccggac gggcgccctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggaggggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgtgctgtg atgtgtagga ggaagagctc  
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<210> 1438

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1438

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ccggcccggc 120

cgcgggggag cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catg gataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg ccggtgaggc  
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agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtctg agcgcgcgga cccccaaag acacacgtga cccaccaccc  
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catgaggcca ccctgagggt ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcacog gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
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<210> 1439

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1439

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ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggagc acacgctgtt  
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gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggt 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttgacag 360

acgatgtatg gctgcgacgt ggggccggac gggcgctctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtctctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgtgtctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1440

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1440

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttccaca ccgccatgtc  
ccgccccggc 120

cgcggggagc cccgcttcac caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggaggggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggtttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcttggtgtg  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
agtgga 1017

<210> 1441

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1441

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ggccctgacc 60

gagacctggg ctggtctcca ctccatgag tatttccaca cctccgtgtc  
ccggcccggc 120



cgcggggagc	cccgttcat	caccgtgggc	tacgtggacg	acacgctgtt
cgtaggttc	180			
gacagcgacg	ccacgagtcc	gaggaaggag	ccgcgggcgc	catggataga
gcaggagggg	240			
ccggagtatt	gggaccggaa	cacacagatc	ttcaagacca	acacacagac
ttaccgagag	300			
agcctgcgga	acctgcgcgg	ctactacaac	cagagcgagg	ccgggtctca
caccctccag	360			
agcatgtacg	gctgcgacgt	ggggccggac	gggcgcctcc	tccgcgggca
taaccagtac	420			
gcctacgacg	gcaaggatta	catcgccctg	aacgaggacc	tgcgctcctg
gaccgcgcg	480			
gacacggcgg	ctcagatcac	ccagcgcaag	tgggaggcgg	cccgtgtggc
ggagcagctg	540			
agagcctacc	tggagggcga	gtgcgtggag	tggctccgca	gatacctgga
gaacgggaag	600			
gagacgtgc	agcgcgcgga	ccccccaaag	acacacgtga	cccaccaccc
catctctgac	660			
catgaggcca	ccctgaggtg	ctgggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacactgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttcagaa	gtgggcagct	gtggtggtgc	cttctggaga
agagcagaga	840			
tacacatgcc	atgtacagca	tgaggggctg	ccgaagcccc	tcaccctgag
atgggagccg	900			
tcttccagct	ccaccgtccc	catcgtgggc	attgttctg	gcctggctgt
cctagcagtt	960			
gtggtcatcg	gagctgtggt	cgctgctgtg	atgtgtagga	ggaagagctc
aggtgga	1017			

<210> 1442  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1442  
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ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgtgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggtatga ccagtacgcc  
tacgacgga 360

aggattacat cgccctgaac gaggacctgc gtcctggac cgccgaggac  
acggcgctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1443  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1443  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacgcca 360

aggattacat gcgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtcc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1444

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1444

gctccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtaggcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgoggac  
acggcggtct 420

agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1445

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1445

atgcgggtca cggcgccccc aaccgtcttc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcgggggag cccgcttcct ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctcag 360

aggatgtacg gctgcgacgt ggggcccggac gggcgctctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctg  
619

<210> 1446

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1446

atgcgggtca cggcgccccg aaccctctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggccccggc 120

cgcggggagc cccgcttcac caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcg gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aactcgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggtccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcg  
619

<210> 1447

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1447

gctccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1448

<211> 546

<212> DNA  
<213> Homo sapiens

<400> 1448  
gctccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120  
  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacgcca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgcgcgggac  
acggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540  
  
gcgctg  
546

<210> 1449  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1449  
gctccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgectcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acgcgggctc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggattgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1450

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1450

atgcgggtca cggcaccccg aaccgtcttc ctgtgtctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttccaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcac caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300



agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggaggggca gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctg  
619

<210> 1451

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1451

gctccactc catgaggat ttccacacct ccgtgtcccg gcccgccgcg  
ggggagcccc 60

gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaaggccg ggtctcacac cctccagagc  
atgtacgct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat gcgcctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaagagag  
acgctgcagc 540

gcgcgg  
546

<210> 1452  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1452  
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ggggagcccc 60

gcttcateac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcgga  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaagagag  
acgctgcagc 540

gcgcgg  
546

<210> 1453  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 1453  
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ggccctgacc 60  
  
gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcac caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180  
  
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gcaggagggg 240  
  
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300  
  
agctcgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360  
  
aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggga  
tgaccagtcc 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480  
  
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540  
  
agagcctacc tggaggggca gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgtctg agcgcgcgg  
619

<210> 1454  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1454  
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 ggggagcccc 60  
  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
 agcgacgccg 120  
  
 cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
 gagtattggg 180  
  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
 ctgcggaacc 240  
  
 tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
 atgtacggct 300  
  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
 tacgacggca 360  
  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac  
 acgcggtctc 420  
  
 agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
 gcctacctgg 480  
  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
 aagctggagc 540  
  
 gcgctg  
 546

<210> 1455  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 1455  
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 ggccctgacc 60  
  
 gagacctggg ccggctccca ctccatgagg tatttccaca ccgcatgtc  
 ccggccccgg 120

cgcggggagc cccgcttcac caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggagc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcgcg 480

gacacggcgg ctcagatctc ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggaggggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctg  
619

<210> 1456

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1456

gctccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacac cgctgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtct 420

agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1457

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1457

gtccccactc catgaggtat ttccacaccg ccatgtcccg gcccgggccg  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
acgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gcccgacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtct 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1458

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1458

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ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggt 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacgga 360

aagattacat gcgctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1459  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1459  
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ggggagcccc 60

gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcgcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagaacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcccgggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcggg gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1460  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1460  
gctccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60



gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacgca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1461

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1461

gctccactc catgaggat ttccacacct ccgtgtcccg gcccggccgc  
gggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtaggcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgctgcagc 540

gcgcgg  
546

<210> 1462

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1462

gtccccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacac cgtgggttac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaaggccg ggtctcacat catccaggtg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtaggcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtg ctccgcagat acctggagaa cggsaaggac  
aagctggagc 540

gcgctg  
546

<210> 1463  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1463  
gctccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacgct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcgac  
acggcggctc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtg ctccgcagat acctggagaa cggsaaggac  
aagctggagc 540

gcgctg  
546

<210> 1464  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1464  
gctccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgagggcga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1465  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1465

gctccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtcc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctaccctg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1466

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1466

gctccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagggtg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

agaattacat cgccctgaac gaggacctgc gctcctggac cgccgcggaac  
acggcggtctc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1467

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1467

gtccccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
gggagagccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggtct 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaagagag  
acgtgcagc 540

gcgcgg  
546

<210> 1468

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1468

gctccactc catgaggat ttccacaccg ccatgtcccg gcccgccgcg  
gggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggt 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtct 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaagagac  
aagctggagc 540

gcgctg  
546

<210> 1469  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1469  
gctccactc catgaggat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120  
  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcggaacc 240  
  
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacgct 300  
  
gcgacgtggg gccggacggg cgccctctcc gcgggcataa ccagtacgcc  
tacgacgca 360  
  
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acggcgctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1470  
<211> 546  
<212> DNA  
<213> Homo sapiens



<400> 1470

gctccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtccgcc  
tacgacggca 360

aggattacat gcgcctgaac gaggacctgc gctcctggac cgccgcggaac  
acggcggtct 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cggaaggagc  
aagctggagc 540

gcgctg  
546

<210> 1471

<211> 912

<212> DNA

<213> Homo sapiens

<400> 1471

gggggcagtg gccctgaccg agacctgggc tggtctccac tccatgaggt  
atttccacac 60

ctcctgttcc cgccccggcc gcggggagcc ccgttcac accgtgggct  
acgtggacga 120

cacgtgttcc gtgaggttcg acagcgacgc cacgagtcgg aggaaggagc  
cgcgggcgcc 180

atggatagag caggaggggc cggagtattg ggaccgggag acacagatct  
ccaagaccaa 240

cacacagact taccgagaga gcctgcggaa cctgcgcggc tactacaacc  
agagcgaggc 300

cggtctctac accctccaga gcatgtacgg ctgcgacgtg gggccggacg  
ggcgctcctc 360

ccgcgggcat aaccagtacg cctacgacgg caaggattac atcgccctga  
acgaggacct 420

gcgtcctctg accgccgcgg acacggcggc tcagatcacc cagcgcaagt  
gggaggcggc 480

ccgtgtggcg gaggagctga gaggctacct ggagggcacg tgcgtggagt  
ggctccgcag 540

atacctggag aacgggaagg agacgtgca gcgcgcggac ccccaaaga  
cacacgtgac 600

ccaccacccc atctctgacc atgaggccac cctgagggtgc tggggcctgg  
gcttctaccc 660

tgcgagagac aactgacct ggcagcggga tggcgaggac caaactcagg  
aactgagct 720

tgtggagacc agaccagcag gagatagaac cttccagaag tgggcagctg  
tgggtgtgcc 780

ttctggagaa gaggagagat acacatgcc agtacagcat gaggggctgc  
cgaagccctc 840

caccctgaga tgggagccgt cttcccagtc caccgtcccc atcgtgggca  
ttgttgctgg 900

cctggctgtc ct  
912

<210> 1472

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1472

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtct 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1473

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1473

gctccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcccgggac  
acggcggctc 420

agatctccca gcgcaagttg gaggcgggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggtg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1474

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1474

gtccccactc catgaggtat ttccacaccg ccattgtcccg gcccgggccgc  
ggggagcccc 60

gcttcatcac cgtggggtac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcccatt ggatagagca ggagggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1475

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1475

gtcccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc  
ggggagcccc 60

gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac ttggcagagc  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccba gcgcaagtggt gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1476  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1476  
atgcgggtca cggcaccgcc aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttccaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

aggatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacacgctgg agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttccagtc ccaccgtccc catcgtgggc attgttctg gcttggtgtg  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1477

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1477

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ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tatttccaca ccgccatgtc  
ccggcccggc 120

cgcgggggag cccgcttcat caccgtgggc tacgtggagc acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgctctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacaggagacc tgcgctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacacgctgg agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagccg 900

tcttccagtt ccaccgtccc catcgtgggc attgtgtctg gcttggtgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
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<210> 1478

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1478

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ggagagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240



tgcgcggcta ctacaaccag agcgaaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagggac  
acgctggagc 540

gcgcgg  
546

<210> 1479

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1479

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ggggagcccc 60

gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggsaaggac  
acgtggagc 540

gcgcgg  
546

<210> 1480  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1480  
gctccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaagc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggsaaggac  
acgtggagc 540

gcgcgg  
546

<210> 1481  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1481  
gctccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacgcca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctgcagc 540

gcgcgg  
546

<210> 1482  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1482

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ggccctgacc	60			
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ccggccccgc	120			
cgcgggggagc	cccgttcat	ctcagtgggc	tacgtggacg	acaccagtt
cgtgaggttc	180			
gacagcgacg	ccgcgagtcc	gagagaggag	ccgcggggcg	cgtggataga
gcaggagggg	240			
ccggagtatt	gggaccggaa	cacacagatc	tacaaggccc	aggcacagac
tgaccgagag	300			
agcctgcgga	acctgcgcgg	ctactacaac	cagagcgagg	ccgggtctca
caccctcag	360			
agcatgtacg	gctgcgacgt	ggggccggac	gggcgcctcc	tccgcgggca
taaccagtac	420			
gcctacgacg	gcaaggatta	catcgccctg	aacgaggacc	tgcgtcctg
gaccgcggcg	480			
gacaccgcgg	ctcagatcac	ccagcgcaag	tgggaggcgg	cccgtgtggc
ggagcaggac	540			
agagcctacc	tggagggcac	gtgcgtggag	tggctccgca	gatacctgga
gaacgggaag	600			
gacacgttg	agcgcgcgga	ccccccaaag	acacacgtga	cccaccaccc
catctctgac	660			
catgaggcca	ccttgagggtg	ctgggcccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacactgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttccagaa	gtgggcagct	gtggtggtgc	cttctggaga
agagcagaga	840			
tacacatgcc	atgtacagca	tgaggggctg	ccgaagcccc	tcaccctgag
atgggagccc	900			

tcttcccagt ccaccgtccc catcgtgggc attgttctgt gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagctc  
aggtgga 1017

<210> 1483

<211> 547

<212> DNA

<213> Homo sapiens

<400> 1483

ggctcccact ccatgaggta tttccacacc tccgtgtccc ggcccggccg  
cggggagccc 60

cgcttcattt cagtgggcta cgtggacgac acccagttcg tgaggttcga  
cagcgacgcc 120

gcgagtccga gagaggagcc gcgggagccg tggatagagc aggaggggcc  
ggagtattgg 180

gaccggaaca cacagatcta caaggcccag gcacagactg accgagagag  
cctcggaac 240

ctgcgcggct actacaacca gagcgaggcc ggggtctaca ccctccagag  
catgtacggc 300

tgcgacgtgg ggccggacgg gcgcctcctc cgcgggcata accagtacgc  
ctacgacggc 360

aaggattaca tcgccttgaa cgaggacctg cgctcctgga ccgcggcgga  
caccgcggt 420

cagatcaccc agcgcaagtg ggaggcggcc cgtgtggcgg agcaggacag  
agcctacctg 480

gagggcacgt gcgtggagtg gctccgcaga tacctggaga acgggaagga  
cacgctggag 540

cgcgcg

547

<210> 1484

<211> 546

<212> DNA  
<213> Homo sapiens

<400> 1484  
gtccccactc catgagggtat ttctacacct cegtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcacttc agtggggtac gtggacgaca cccagtctgt gaggttcgac  
agcgacgccc 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240  
  
tgcgcggtca ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatgggt 300  
  
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacgca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcgctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540  
  
gcgcgg  
546

<210> 1485  
<211> 1052  
<212> DNA  
<213> Homo sapiens

<400> 1485  
atgcgggtca cggcgccccg aacctctctc ctgtgtctct ggggggcagt  
ggccctgacc 60  
  
gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cgtgaggttc	cccgtttcat 180	caccgtgggc	tacgtggacg	acacgctgtt
gacagcgacg gcaggagggg	ccacgagtcc 240	gaggaaggag	ccgcgggcgc	catggataga
ccggagtatt ttaccgagag	gggaccggga 300	gacacagatc	tccaagacca	acacacagac
aacctgcgca catcatccag	ccgcgctccg 360	ctactacaac	cagagcgagg	ccgggtctca
aggatgtaoc tgaccaggac	gctgcgacgt 420	ggggccggac	ggcgccctcc	tccgcgggta
gcctacgacg gaccgcggcg	gcaaggatta 480	catcgccctg	aacgaggacc	tgagctcctg
gacaccgcgg ggagcaggac	ctcagatcac 540	ccagcgcaag	tgggaggcgg	cccgtgtggc
agagcctacc gaacgggaag	tggagggcct 600	gtgcgtggag	tcgctccgca	gatacctgga
gagacgctgc catctctgac	agcgcgcgga 660	ccccccaaag	acacatgtga	cccaccaccc
catgaggtea cacactgacc	ccctgagggtg 720	ctggggccctg	ggcttctacc	ctgcggagat
tggcagcggg cagaccagca	atggcgagga 780	ccaaactcag	gacaccgagc	ttgtggagac
ggagatagaa agagcagaga	ccttccagaa 840	gtgggcagct	gtggtggtgc	cttctggaga
tacacatgcc atgggagccg	atgtacagca 900	tgaggggctg	ccgaagcccc	tcaccctgag
tcttcccagt cctagcagtt	ccaccgtccc 960	catcgtgggc	attgttgctg	gcctggctgt
gtggtcatcg aggtggactg	gagctgtggt 1020	cgtgctgtg	atgtgtagga	ggaagagctc

ctgtgatgtg taggaggaag agctcaggtg ga  
1052

<210> 1486

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1486

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ggggagcccc 60

gcttcatac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcg aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cggsaaggag  
acgctgcagc 540

gcgcggaccc cccaaagaca catgtgacct accaccccat ctctgacct  
gaggtcaccc 600

tgaggtgctg ggccctgggc ttctacctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga  
gatagaacct 720



tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1487

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1487

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggtatga ccaggacgcc  
tacgacgcca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtcgcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1488

<211> 1017

<212> DNA  
<213> Homo sapiens

<400> 1488  
atgcgggtca cggcgccccg aacctcctc ctgctgctct ggggggcagt  
ggccctgacc 60  
  
gagacctggg cgggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180  
  
gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240  
  
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300  
  
aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360  
  
aggatgtacg gctgcgacgt ggggcccggc gggcgccctc tccgcgggta  
tgaccagcac 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480  
  
gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540  
  
agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccacc  
catctctgac 660  
  
catgagggtc ccctgagggtg ctgggcccctg ggcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780  
  
ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcacg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1489

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1489

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ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc ccgccttcac caccgtgggc tacgtggagc acacgctgtt  
cgtgaggttc 180

gacagcgagc ccacgagtcc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aactgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
tgaccaggac 420

gcctacgagc gcaaggatta catgcacctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgagggtca ccctgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgtgtctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1490

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1490

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccgccccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggta  
tgaccagagac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagcgg 540

agagcctacc tggagggcac gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggtea ccttgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcttggtgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1491

<211> 404

<212> DNA

<213> Homo sapiens

<400> 1491

ggcgccatgg atagagcagg aggggccgga gtattgggac cgggagacac  
agatctccaa 60

gaccaacaca cagacttacc gagagaacct gcgcaccgcg ctccgtact  
acaaccagag 120

cgaggccggg tctcacatca tccagaggat gtacggctgc gacgtggggc  
cggacgggcg 180

cctcctccgc gggtatgacc agtacgccta cgacggcaag gattacatcg  
ccctgaacga 240

ggacctgagc tctctggaccg cggcggacac cgcggctcag atcaccacgc  
gcaagtggga 300

ggcggcccggt gtggcggagc aggacagagc ctacctggag ggctgtgcg  
tgagtcgct 360

ccgcagatac ctggagaacg ggaaggagac gctgcagcgc gcg  
404

<210> 1492

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1492

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tatttctaca ccgccatgtc  
ccggccccgc 120

cgcggggagc cccgcttcat tgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccagagag 300

aactgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
tgaccaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgg  
619

<210> 1493

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1493

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ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggagc acacgtgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggaaggag ccgcgggcgc catg gataga  
gcaggagggg 240

ccgaggtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aactgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
tgaccaggac 420

gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgagggtca ccctgaggtg ctggggcctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgtgtctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1494

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1494

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccgccccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360



aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggta  
tgaccagagac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagagac 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgtgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggtea ccttgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttctg gcttggtgtg  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1495

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1495

atgcgggtca cggcgccccg aaccctctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgag tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc	cccgttcat	caccgtgggc	tacgtggacg	acacgctgtt
cgtaggttc	180			
gacagcgacg	ccacgagtcc	gaggaaggag	ccgcgggcgc	catggataga
gcaggagggg	240			
ccggagtatt	gggaccggga	gacacagatc	tccaagacca	acacacagac
ttaccgagag	300			
agcctgcgga	acctgcgcgg	ctactacaac	cagagcgagg	ccgggtctca
catcatccag	360			
aggatgtacg	gctgcgacgt	ggggccggac	gggcgcctcc	tccgcgggta
tgaccaggac	420			
gcctacgacg	gcaaggatta	catcgccctg	aacgaggacc	tgagctcctg
gaccgcggcg	480			
gacaccgcgg	ctcagatcac	ccagcgcaag	tgggaggcgg	cccgtgtggc
ggagcaggac	540			
agagcctacc	tggagggcct	gtgcgtggag	tcgctccgca	gatacctgga
gaacgggaag	600			
gagacgtgc	agcgcgcgga	ccccccaaag	acacatgtga	cccaccaccc
catctctgac	660			
catgaggtca	ccctgaggtg	ctgggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacaccgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttcagaa	gtgggcagct	gtggtggtgc	cttctggaga
agagcagaga	840			
tacacatgcc	atgtacagca	tgaggggctg	ccgaagcccc	tcaccctgag
atgggagccg	900			
tcttccagct	ccaccgtccc	catcgtgggc	attgttctg	gcctggctgt
cctagcagtt	960			
gtggtcatcg	gagctgtggt	cgctgctgtg	atgtgtagga	ggaagagctc
aggtgga	1017			

<210> 1496  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1496  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtttggct 300

gcgacctggg gcccgacggg cgccctctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1497  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1497  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc  
ggggagcccc 60

gcttcacac cgtagggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccc 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc  
tacgacgcca 360

aggattacat gcgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1498

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1498

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc  
ggggagcccc 60

gcttcacac cgtagggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccc 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1499

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1499

atgcgggtca cggcgccccc aacctctctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcgggggagc ccgccttcac caccgtgggc tacgtggacg acacgtgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcgc catggataga  
gcaggagggg 240

ccggagtatt gggagcggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aactgcgcga ccgcgtccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctctc tccgcgggta  
tgaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgagggtca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttccagtt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1500

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1500

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgcg  
gggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtct 420

agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1501

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1501

gtccccactc catgaggat ttccacaccg ccatgtcccg gcccggccgc  
gggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgcgac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtgc ctccgcagat acctggagaa cggaagagg  
acgtgcagc 540

gcgcgg  
546

<210> 1502

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1502

gctccactc catgaggat ttctacaccg ccatgtcccg gcccggccgc  
gggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccc atgtagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggt 300

gcgagctggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgcgac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcgagtgc cgtggagtgc ctccgcagat acctggagaa cggaagagg  
acgtgcagc 540



gcgcgg  
546

<210> 1503  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1503  
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ggggagcccc 60  
  
gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120  
  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240  
  
cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacgct 300  
  
gcgacgtggg gccggacggg cgccctctcc gcgggcatga ccagtccgcc  
tacgacgca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1504  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 1504  
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 ggccctgacc 60  
  
 gagacctggg ccggctccca ctccatgagg tatttccaca ccgccatgtc  
 ccggcccggc 120  
  
 cgcggggagc cccgcttcac caccgtgggc tacgtggacg acacgctgtt  
 cgtgaggttc 180  
  
 gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
 gcaggagggg 240  
  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
 ttaccgagag 300  
  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca  
 cacttggcag 360  
  
 aggatgtatg gctgcgacct ggggcccgac gggcgccctc tccgcgggta  
 taaccagtta 420  
  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
 gaccgcggcg 480  
  
 gacaccgcgg ctcatgatc ccagcgcaag tgggaggcgg ccctgtggc  
 ggagcaggac 540  
  
 agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
 gaacgggaag 600  
  
 gagacgtgc agcgcgcgg  
 619

<210> 1505  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 1505  
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 ggggagcccc 60  
  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
 agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1506

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1506

gtctccactc catgaggat ttctacaccg ccatgtcccg gcccggccg  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacggca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

aggcgagtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1507

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1507

gctccactc catgaggtat ttctacaccg ccgtgtcccg gcccgggcgc  
ggggagcccc 60

gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1508

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1508

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ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccgt gggtagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1509

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1509  
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ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1510  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1510  
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ggggagcccc 60

gcttcacac cgtagggctac gtggacgaca cgctgttggt gaggttcgac  
agcgacgcca 120

cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc  
tacgacgcca 360

aggattacat gcgccgaac gaggacctga gctcctggac cgcggcggac  
accgcgctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1511

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1511

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agcgacgcca 120

cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcggaccc cccaaagaca catgtgacct accaccccat ctctgacct  
gaggccaccc 600

tgaggtgctg ggccttgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1512

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1512

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gggagcccc 60

gcttcatac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180



accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtct 420

agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1513

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1513

gtccccactc catgaggtag ttctacaccg ccatgtcccg gcccgggccg  
gggagagccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgcctgaac gaggaactga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1514

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1514

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgtgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggt 300

gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgcctgaac gaggaactga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgcggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1515  
<211> 895  
<212> DNA  
<213> Homo sapiens

<400> 1515  
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ggccctgacc 60  
  
gagacctggg ccggetccca ctccatgagg tatttctaca ccgccatgtc  
ccggccccggc 120  
  
cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180  
  
gacagcgacg ccacgagtcg gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240  
  
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300  
  
aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360  
  
aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgag 480  
  
gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg ccggtgtggc  
ggagcagctg 540  
  
agagcctacc tggaggggca gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600  
  
gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccacc  
catctctgac 660  
  
catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atggg 895

<210> 1516

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1516

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ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggtc 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat gcgcctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcgggcc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1517  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1517  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacac cgtagggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat caccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1518  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1518  
atcggggtca cggcaccgcc aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg cgggctccca ctccatgagg tatttccaca cgcctatgtc  
ccggcccggg 120

cgcgggggagc cccgcttcat caccgtgggc tacgtggagc acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca  
cacttgcgag 360

aggatgtatg gctgcgacct ggggcccgac gggcgccctc tccgcgggta  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgtactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1519

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1519

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ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtatgct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtataa ccagttcgcc  
tacgacgcca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1520

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1520

gctccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtcagg gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtataa ccggttagcc  
tacgacggca 360

aggattacat gcgcctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1521

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1521

atgcgggtca cggcaccgcc aaccgtcctc ctgctgctct cggcgccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttccaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcac caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180



gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

aggatgtatg gctgcgacct gggggccgac gggcgccctc tccgcgggta  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcgcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagag 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc  
catctctgac 660

catgaggcca ccctgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtgtgac cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttccagtc ccaccatccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1522

<211> 543

<212> DNA  
<213> Homo sapiens

<400> 1522  
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ggggagcccc 60  
  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120  
  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtatggct 300  
  
gcgacctggg gcccgacggg cgctctctcc gcgggtataa ccagttagcc  
tacgacgcca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcgctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gtctacctgg 480  
  
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcg  
543

<210> 1523  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1523  
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ggggagcccc 60  
  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgectcctcc gcgggtataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcgctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1524

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1524

atgcgggtca cggcgccccg aaccgtctc ctgtgtctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcac cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgcagct ggggcccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga ccccccaaag acacatgtga cccaccacc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1525

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1525

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gggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcggag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactgg ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtcgcc  
tacgacgga 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1526

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1526

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ggccctgacc 60

gagacctggg ctggctcca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcac caccgtgggc tacgtggacg acacgtgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

gacctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtttg gctgcgacgt ggggccggac gggcgccctcc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggaggggcga gtgcgtggag tggetccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga cccccaaag acacacgtga cccaccacc  
catctctgac 660

catgaggcca ccctgagggt ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcacagaa gtgggcagct gtggtgtgtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttctgt gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg gtgtgtagga ggaagagctc  
agtgga 1017

<210> 1527

<211> 904

<212> DNA

<213> Homo sapiens

<400> 1527

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ccctgaccga 60

gacctgggct ggctcccact ccatgaggtta tttctacacc gccatgtccc  
ggcccggcgg 120

cggggagccc cgcttcatca cctgaggcta cgtggacgac acgctgttcg  
tgaggttcga 180

cagcgacgcc acgagtcgga ggaaggagcc gcggggcgcca tggatagagc  
aggagggggc 240

ggagtattgg gaccgggaga cacagatctc caagaccaac acacagactt  
accgagagag 300

cctgcggaac ctgcgcggct actacaacca gagcgaggcc ggggtctcaca  
ccctccagag 360

gatgtttggc tgcgacgtgg ggccggacgg gcgcctcctc cgcggggtacc  
accaggacgc 420

ctacgacggc aaggattaca tcgccctgaa cgaggacctg agctcctgga  
ccgcccggga 480

cacggcggct cagatcaccc agcgcaagtg ggaggcggcc cgtgtggcgg  
agcagctgag 540

agcctacctg gagggcgagt gcgtggagtg gctccgcaga tacctggaga  
acgggaagga 600

gacgctgcag cgcgcggaacc ccccaaagac acacgtgacc caccacccca  
tctctgacca 660

tgaggccacc ctgaggtgct gggccctggg cttctaccct gcggagatca  
cactgacctg 720

gcagcgggat ggcgaggacc aaactcagga cactgagctt gtggagacca  
gaccagcagg 780

agatagaacc ttccagaagt gggcagctgt ggtgggtgcct tctggagaag  
agcagagata 840

cacatgccat gtacagcatg aggggctgcc gaagcccctc accctgagat  
gggagccgtc 900

ttcc  
904

<210> 1528  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1528  
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ggggagcccc 60  
  
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agcgacgcca 120  
  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtttggct 300  
  
gcgacgtggg gccggacggg cgccctctcc gcgggtacca ccaggacgcc  
tacgacgca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgccgcgga  
acggcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1529  
<211> 546  
<212> DNA  
<213> Homo sapiens



<400> 1529

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ggggagcccc 60

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agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggtacca ccaggacgcc  
tacgacggca 360

aggattacat gcgccgaac gaggacctga gctcctggac cgccgcggac  
acggcggtct 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1530

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1530

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcac ctcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg cgcgcgagtcc gagagaggag ccgcggggcgc cgtggataga  
gcaggaggagg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgcctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgag 480

gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggaggggca gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccacc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtggacagct gtggtgtgac cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt  
cctagagttt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1531

<211> 993

<212> DNA  
<213> Homo sapiens

<400> 1531  
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ctcccactcc 60  
  
atgaggtatt tctacacctc cgtgtcccgg cccggcccg gggagccccg  
cttcattctca 120  
  
gtgggctacg tggacgacac ccagttcgtg aggttcgaca gcgacgccgc  
gagtcggaga 180  
  
gaggagccgc gggcgccgtg gatagagcag gaggggccgg agtattggga  
ccgggagaca 240  
  
cagatctcca agaccaacac acagacttac cgagagagcc tgcggaacct  
gcgcggctac 300  
  
tacaaccaga gcgaggccgg gtctcacatc atccagagga tgtatggctg  
cgacctgggg 360  
  
cccgacgggc gcctctctcg cgggcatgac cagtcgcctc acgacggcaa  
ggattacatc 420  
  
gcctgaacg aggacctgag ctcttgacc gcggcggaaca ccgcggctca  
gatcaccag 480  
  
cgcaagtggg aggcggcccc tgtggcggag cagctgagag cctacctgga  
gggcctgtgc 540  
  
gtggagtggc tccgcagata cctggagaac ggaaggaga cgctgcagcg  
cgcggacccc 600  
  
caaagacac acgtgacca caccgccgc tctgacctg aggccacct  
gagtgctgg 660  
  
gcctgggct tctacctgc ggagatcaca ctgacctggc agcgggatgg  
cgaggaccaa 720  
  
actcaggaca ctgagcttgt ggagaccaga ccagcaggag atagaacctt  
ccagaagtgg 780  
  
gcagctgtgg tggtccttc tggagaagag cagagatata catgccatgt  
acagcatgag 840

gggctgccga agcccctcac cctgagatgg gagccatett cccagtccac  
catcccatc 900

gtgggcattg ttgctggcct ggctgtccta gcagttgtgg tcatcggagc  
tgtggtcgct 960

actgtgatgt gtaggaggaa gagctcaggt gga  
993

<210> 1532

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1532

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gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacgget 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat gcgcctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtct 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1533  
<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 1533  
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ggggagcccc 60  
  
gcttcatctc agtgggctac gtggacgaca cccagtctgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac  
acggcggtc 420  
  
agatctccca gcgcaagttg gaggcgcccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540  
  
gcgcggaacc cccaaagaca cacgtgacct accaccccat ctctgacct  
gaggccacct 600  
  
tgaggtgctg ggccttgggt ttctaccttg cggagatcac actgacctgg  
cagcgggatg 660  
  
gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga  
gatagaacct 720  
  
tccagaagtg gacagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagccctca ccctgagatg gg  
822

<210> 1534  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 1534  
atgctggtea tggcgccccg aaccgtctc ctgctgctct cggcgccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgag tatttctaca cctccgtgtc  
ccgccccggc 120

cgcggggagc cccgttcat ctccgtgggc tacgtggagc acaccagtt  
cgtgagggtc 180

gacagcgagc ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgagc gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgag 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggaggggca gtgcgtggag tggctccga gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctg  
619

<210> 1535  
<211> 546

<212> DNA  
<213> Homo sapiens

<400> 1535  
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggtc ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacgca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420  
  
agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540  
  
gcgctg  
546

<210> 1536  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1536  
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ggggagcccc 60  
  
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgccctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtct 420

agatctccca gcgcaagttg gaggcgggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctcgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1537

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1537

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ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttccaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcac caccgtgggc tacgtggagc acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300



aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

aggatgtatg gctgcgacct ggggcccgcac gggcgccctcc tccgcgggta  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga ccccccaaag acacatgtga cccaccacc  
catctctgac 660

catgaggcca ccctgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttccagtc ccaccatccc catcgtgggc attgttgctg gcttggtgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1538

<211> 820

<212> DNA

<213> Homo sapiens

<400> 1538

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ttcatcaccg tgggctacgt ggacgacacg ctgttcgtga ggttcgacag  
cgacgccacg 120

agtccgagga aggagccgcg ggcgccatgg atagagcagg aggggccgga  
gtattgggac 180

cgggagacac agatctccaa gaccaacaca cagacttacc gagagaacct  
gcgcaccgcg 240

ctccgctact acaaccagag cgaggccggg tctcacactt ggcagaggat  
gtatggctgc 300

gacctggggc ccgacgggcg cctcctccgc ggtataaacc agttagccta  
cgacggcaag 360

gattacatcg ccctgaacga ggacctgagc tcttggaacg cggcggacac  
cgcggctcag 420

atcacccagc gcaagtggga ggcggcccgt gaggcggagc agctgagagc  
ctacctggag 480

ggcctgtgcg tggagtggct ccgcagatac ctggagaacg ggaaggagac  
gctgcagcgc 540

gcggaccccc caaagacaca tgtgaccac caccocatct ctgaccatga  
ggccaccctg 600

aggtgctggg ccctgggctt ctaccctgcg gagatcacac tgacctggca  
gcgggatggc 660

gaggaccaa ctcaggacac cgagcttgtg gagaccagac cagcaggaga  
tagaaccttc 720

cagaagtggg cagctgtggt ggtgccttct ggagaagagc agagatacac  
atgccatgta 780

cagcatgagg ggctgccgaa gccccctcacc ctgagatggg  
820

<210> 1539

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1539

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gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1540

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1540

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ggcctgacc 60

gagacctggg ccggctccca ctccatgagg tatttcacac ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcac caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

aggatgtatg gctgcgacct gggggccgac gggcgcctcc tccgcgggta  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcgagc 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc  
catctctgac 660

catgaggcca ccttgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1541

<211> 1017

<212> DNA  
<213> Homo sapiens

<400> 1541  
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ggccctgacc 60  
  
gagacctggg ccggctccca ctccatgagg tatttccaca ccgcatgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcat caccgtgggc tacgtggagc acacgctgtt  
cgtgaggttc 180  
  
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gcaggagggg 240  
  
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300  
  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360  
  
aggatgtatg gctgcgacct ggggcccgcg gggcgccctc tccgcgggta  
taaccagtta 420  
  
gcctacgagc gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480  
  
gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540  
  
agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccacc  
catctctgac 660  
  
catgaggcca ccctgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780  
  
ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcacog gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
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<210> 1542

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1542

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ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtacggt 300

gcgagctggg gcccgacggg cgctctctcc gcgggtataa ccagttagcc  
tacgacgga 360

aggattacat gcgcctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1543  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1543  
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ggccctgacc 60  
  
gagacctggg cgggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcat tgcagtgggc tacgtggagc acaccagtt  
cgtgaggttc 180  
  
gacagcgagc ccgcgagtc gaggacggag cccggggcgc catggataga  
gcaggagggg 240  
  
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300  
  
aacctgcgga tcgcgctccg ctactacaac cagagcgagg cgggtctca  
cacttgagc 360  
  
acgatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagtac 420  
  
gcctacgagc gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480  
  
gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg ccctgagggc  
ggagcagctg 540  
  
agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600  
  
gagacgtcgc agcgcgcgga cccccaaag acacacgtga cccaccacc  
cgtctctgac 660  
  
catgaggcca ccctgagggtg ctgggcccctg ggcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttccagtt ccaccatccc catcgtgggc attgttgctg gcttggtgtg  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1544

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1544

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccaatgc  
ccgccccggc 120

cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcg gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggacccgaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttgacag 360

acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540



agagcctacc tggagggcct gtgcgtggag tggtccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgtg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1545

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1545

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag  
acgctgcagg 540

gcgcgg  
546

<210> 1546

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1546

gtcccaactc catgaggtat ttctacaccg ccatgtcccg gcccgggccg  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagAAC  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1547

<211> 1012

<212> DNA

<213> Homo sapiens

<400> 1547

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggcctgacc 60

gagacctggg ccggtcccca ctccatgagg tatttctaca ccgcatgtc  
ccggccccgc 120

cgcggggagc cccgcttcat tgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catgcacctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
cgtctctgac 660

catgaggcca cccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttccagtg ccaccatccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc ag  
1012

<210> 1548

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1548

atgcgggtca cggcgccccg aaccgtcttc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcac tgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacctcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca  
cacttgacag 360

acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcgacg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgctggag ttgctccga gatacctgga  
gaacgggaag 600

gagacgtgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gctgggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1549

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1549

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggccccgg 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg cggggtctca  
cacttgacg 360

acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggtccgca gatacctgga  
gaacgggaag 600

gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcttggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgtactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1550

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1550

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccaatgtc  
ccggccccgg 120

cgcgggggagc cccgcttcat tgcagtgggc tacgtggacg acacccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttgccag 360

acgatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctccagatcac ccagcgcaag tgggaggcgg ccgctgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag gggctccgca gacacctgga  
gaacgggaag 600

gagacgtctg agcgcgcgga cccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgagggt ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtgtgtc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcacg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1551

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1551

atgcggtca cggcgccccg aaccgtctc ctgtgtctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat tgcagtgggc tacgtggagc acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catg gataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aactgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catgcacctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600



gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttccagtc ccaccatccc catcgtgggc attgtgtctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1552

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1552

gtccccactc catgagggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgccctcctc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgtgcagc 540

gcgcggaccc cccaaagaca cacgtgacct accaccccgct ctctgacct  
gaggccaccc 600

tgagggtgtg ggccctgggc ttctaccttg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1553

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1553

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ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1554

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1554

gtcccaactc catgaggtat ttctacaccg ccatgtcccg gcccgggccg  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcgc 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagAAC  
ctgcg gatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1555  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1555  
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ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tatttctaca ccgccatgtc  
ccggccccgc 120

cgcggggagc cccgcttcat tgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catgcacctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttccagtg ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1556

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1556

gtctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacgca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1557

<211> 677

<212> DNA

<213> Homo sapiens

<400> 1557

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gacgacaccc agttcgtgag gttcgacagc gacgccgcga gtccgaggac  
ggagccccgg 120

gcgccatgga tagagcagga ggggccggag tattgggacc ggaacacaca  
gatcttcaag 180

accaacacac agacttaccg agagaacctg cggatcgcgc tccgetacta  
caaccagagc 240

gaggccgggt ctcacacttg gcagacgatg tatggctgcg acgtggggcc  
ggacgggcgc 300

ctctcccgcg ggcataacca gtacgcctac gacggcaagg attacatcgc  
cctgaacgag 360

gacctgcgct cctggaccgc cgcggacacg gcggctcaga tcaccacgag  
caagtgggag 420

gcggcccgtg tggcggagca gctgagagcc tacctggagg gcgagtgcgt  
ggagtggctc 480

cgcgataacc tggagaacgg gaaggagacg ctgcagcgcg cggaccccc  
aaagacacac 540

gtgaccacac accccgtctc tgaccatgag gccaccctga ggtgctgggc  
cctgggcttc 600

taccctgcgg agatcacact gacctggcag cgggatggcg aggaccaaac  
tcaggacact 660

gagcttgtgg agaccag  
677

<210> 1558

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1558

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcga ctacaaccag agcggaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtggt ctcgcgagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1559

<211> 546

<212> DNA  
<213> Homo sapiens

<400> 1559  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300  
  
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc  
tacgacgca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgccgac  
accgcgctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1560  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1560  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120



cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc  
tacgacgca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcgctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtggt ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1561

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1561

gctcccactc catgaggat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa acagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggggcccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1562

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1562

gctccactc catgaggtat ttctacaccg ccattgtccg gcccgggcgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacctggg gccggacggg cgctcctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggggcccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1563

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1563

gctccactc catgaggat ttctacaccg ccatgtcccg gcccggccg  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacgca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcgccggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcggg gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1564

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1564  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggt 300

gcgacgtggg gccggacggg cgtctcctcc gcggttataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1565  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1565  
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ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc ccgggcataa ccagtacgcc  
tacgacggca 360

aagattacat gcgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtcc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtggt ctcgcgagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1566

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1566

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1567

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1567

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1568

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1568

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggtc 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacgga 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1569  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1569  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcattgc agtgggctac gtggacgaca cccagtctgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180  
  
accggaacac acagatctgc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300  
  
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360  
  
aagattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420  
  
agatcaccca gcgcaagtgg gaggcgggccc gtgaggcggg gcagctgaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540  
  
gcgcgg  
546

<210> 1570  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1570  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60



gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcg gatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacgga 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1571

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1571

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgggccg  
gggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcg gatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtagccc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1572

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1572

gtcccccactc catgaggtat ttctacaccg ccatgtcccc gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcg 120

cgagtccgag gacggagacc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtagccc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaagagag  
acgctgcagc 540

gcgcgg  
546

<210> 1573  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1573  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcg 120

cgagtcgag gacggagccc cgggcgccat ggatagagca ggagggcgcg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcg gatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaagagag  
acgctgcagc 540

gcgcgg  
546

<210> 1574  
<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 1574  
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ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcg 120

cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacgca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgggcc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcggaacc cccaaagaca cacgtgacct accaccccgct ctctgacct  
gaggccacct 600

tgagggtgtg ggcctgggc ttctaccctg cggagatcac actgacctg  
cagcgggatg 660

gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggcgctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagccctca ccctgagatg gg  
822

<210> 1575

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1575

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ggggagcccc 60

gttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtggtg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcggaccc cccaaagaca cacgtgaccc accaccccggt ctctgacccat  
gaggccaccc 600

tgagggtgctg ggccttgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga  
gatggaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccttgagatg gg  
822

<210> 1576

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1576

gctccactc catgaggat ttctacaccg ccatgtcccg gcccggcccg  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagtctcg gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacgca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1577

<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 1577  
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ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggt 300

gcgacgtggg gccggacggg cgctctctcc gggggcataa ccagtacgcc  
tacgacgca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggsaaggag  
acgtgcagc 540

gcgcggaccc cccaaagaca cacgtgacct accaccccg ctctgacct  
gaggccaccc 600

tgagggtgtg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgctg aagccctca cctgagatg gg  
822

<210> 1578  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1578  
gctccactt catgaggtat ttctacaccg ccatgtcccg gcccggccg  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgcag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacgca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgagggcga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1579  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1579



gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtcc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgagg  
546

<210> 1580

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1580

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcac cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg cggggtctca  
cacttgcgag 360

acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg goctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgtactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1581

<211> 993

<212> DNA

<213> Homo sapiens

<400> 1581

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ctcccactcc 60

atgagggtatt tctacaccgc catgtcccgg cccggcccgcg gggagccccg  
cttcattgca 120

gtgggctacg tggacgacac ccagttcgtg aggttcgaca gcgacgccgc  
gagtccgagg 180

acggagcccc gggcgccatg gatagagcag gaggggcccgg agtattggga  
ccgggagaca 240

cagatctcca agaccaacac acagacttac cgagagaacc tgcggatcgc  
gctccgctac 300

tacaaccaga gcgaggcccgg gtctcacact tggcagacga tgtatggctg  
cgacgtgggg 360

ccggacgggg gcctcctccg cgggcataac cagtacgcct acgacggcaa  
agattacatc 420

gccctgaacg aggacctgag ctctctggacc gcggcggaca ccgcggctca  
gatcaccacg 480

cgcaagtggg agggcgcccc tgaggcggag cagctgagag cctacctgga  
gggcctgtgc 540

gtggagtggc tccgcagaca cctggagaac ggggaaggaga cgctgcacgc  
cgcggaaccc 600

caaagacac acgtgaccca ccaccccgtc tctgacctg aggccaccct  
gaggtgctgg 660

gccttgggct tctaccctgc ggagatcaca ctgacctggc agcgggatgg  
cgaggaccaa 720

actcaggaca ctgagcttgt ggagaccaga ccagcaggag atagaacctt  
ccagaagtgg 780

gcagctgtgg tggtgccctc tggagaagag cagagataca catgccatgt  
acagcatgag 840

gggctgccga agcccctcac cctgagatgg gagccatett cccagtccac  
catccccatc 900

gtgggcattg ttgctggcct ggctgtccta gcagttgtgg tcatcggagc  
tgtggtcgct 960

actgtgatgt gtaggaggaa gagctcaggt gga  
993

<210> 1582

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1582

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggt 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat gcgctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcgggcc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1583  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1583  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagtctgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ttcgggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcggg gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtggt ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1584  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1584  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcg gatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgagctggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacgga 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1585

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1585

gtcctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
gggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcg gatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtagcc  
tagcagggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgctgcagc 540

gcgcgg  
546

<210> 1586

<211> 1012

<212> DNA

<213> Homo sapiens

<400> 1586

atgcgggtca cggcgccccg aaccgtctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcac cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtca gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
 gaccgcggcg 480  
 gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
 ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga  
 gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
 cgtctctgac 660  
 catgaggcca ccttgagggtg ctgggccctg ggcttctacc ctgcggagat  
 cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
 cagaccagca 780  
 ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
 agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
 atgggagcca 900  
 tcttccagtc ccaccatccc catcgtgggc attgttctg gcttggtgtg  
 cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc ag  
 1012

<210> 1587  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 1587  
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 ccttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
 agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
 gagtattggg 180



accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtcg 420

agatcaccca gcgcaagtgg gaggcgggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1588

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1588

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacgtcgga tcgcgtccg ctactacaac cagagcgagg cgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgcac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
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<210> 1589

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1589

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ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtct 420

agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtggtg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1590

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1590

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ggggagcccc 60

gttctcatcg agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagaggac  
ctgcggaccc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgggcgac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggggcccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1591

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1591

gctccactc catgaggtat ttctacaccg ccattgtccg gcccgggcgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgggcgac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggggcccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtg ctccgcagat acctggagaa cggaagag  
acgctgcagc 540

gcgcgg  
546

<210> 1592

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1592

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgcccg  
gggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcg 120

cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtcgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgagc  
accgcgctc 420

agatcaccca gcgcaagtgg gagcgggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtg ctccgcagat acctggagaa cggaagag  
acgctgcagc 540

gcgcgg  
546

<210> 1593

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1593  
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ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgaacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1594  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1594  
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ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac catccagagg  
atgtctggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtataa ccagttcgc  
tacgacggca 360

aggattacat gcgccgaac gaggacctga gctcctggac cgcggcggac  
accgcgctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtggt ctcgcgagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1595

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1595

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ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgggcgac  
accgcgctc 420

agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1596

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1596

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgggccg  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagtctgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgggcgac  
accgcgctc 420



agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1597

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1597

atgcgggtca cggcaccccg aaccctctc ctgetgctct ggggggccct  
ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc ccgccttcat cgcagtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgagc ccgcgagtcc gagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttgacag 360

acgatgtatg gctgcgacct ggggccggac gggcgctcc tccgcgggca  
taaccagtta 420

gcctacgagc gcaaggatta catgcacctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctccagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgtgtctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1598

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1598

gtccccactc catgagggtat ttccacacct ccgtgtcccg gcccggccgc  
gggagagccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggtgagaca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacctggg gccggacggg cgccctctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgcctgaac gagaccta gctcctggac cgcggcggac  
accgcgctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1599

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1599

atgcgggtca cggcaccccg aaccctctc ctgctgctct ggggggccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc  
ccgcccggc 120

cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agctcgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttgacg 360

acgatgtatg gctgcgacct ggggccggac gggcgctcc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggtccgca gatacctgga  
gaacgggaag 600

gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgtg gcttggtgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1600

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1600

atgcgggtca cggcaccccg aaccctctc ctgctgtctt ggggggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcac cgcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttgccag 360

acgatgtatg gctgcgcacct ggggccggac gggcgccctcc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccacc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcacagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttccagtg ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1601

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1601

gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccgccgcg  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacctggg gccggacggg cgctcctcc gcgggcataa ccagttagcc  
tacgacgca 360

aggattacat gcgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtcc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1602

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1602

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgoggac  
accgcggtct 420

agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1603

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1603

atgcggtgta cggcaccccg aacctctctc ctgctgctct gggggggcct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcgggggagc ccgccttcac cgcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcgc cgtggataga  
gcaggagggg 240

ccggcggtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcttcggga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacct ggggccggac gggcgctctc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttccagtc ccaccatccc catcgtgggc attgttgctg gctgggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1604

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1604

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgcg  
gggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgcg 120

cgagtccgag aggggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180



accggaacac acagatctac aagggccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacctggg gccggacggg cgccctctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtct 420

agatcaccca gcgcaagtgg gaggcgggcc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1605

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1605

gtcccaactc catgaggtat ttctacaccg ccatgtcccg gcccgggccg  
gggagagccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagtctgt gaggttcgac  
agcgacgcgc 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatctac aagggccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1606

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1606

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
gggagcccc 60

gcttcatcg agtgggctac gtggacgaca cgcagtctgt gaggttcgac  
agcgacgcg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacctggg gccggacggg cgctctctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1607  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1607  
gctccactc catgagggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcattctc agtgggctac gtggacgaca cgcagtctcg gaggttcgac  
agcgacgcgc 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240  
  
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatgct 300  
  
gcgacctggg gccggacggg cgctctctcc gcgggcataa ccagttagcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1608  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1608

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ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagatg  
atgtatggct 300

gcgacctggg gccggacggg cgctctctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1609

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1609

atgcgggtca cggcaccgcc aaccctctc ctgctgctct ggggggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcac cgcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

aacctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacct ggggccggac gggcgcctcc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcgcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccacc  
catctctgac 660

catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtgtgac cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1610

<211> 1017

<212> DNA  
<213> Homo sapiens

<400> 1610  
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ggcctgacc 60  
  
gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180  
  
gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240  
  
ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300  
  
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cacttggcag 360  
  
acgatgtatg gctgcgacct ggggcgggac gggcgctcc tccgcgggca  
taaccagtta 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480  
  
gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg ccctgtgtgc  
ggagcagctg 540  
  
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccacc  
catctctgac 660  
  
catgaggcca ccctgagggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780  
  
ggagatagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcacog gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1611

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1611

atgcggtca cggcaccocg aaccctctc ctgetgtctt ggggggcct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc ccgcttcat cgcagtgggc tacgtggagc acacgcagtt  
cgtgaggttc 180

gacagcgagc ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacct ggggccggac gggcgctcc tccgcgggca  
taaccagtta 420

gcctacgagc gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg ccggtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggcctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttccagtc ccaccatccc catcgtgggc attgtgtctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1612

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1612

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccgccccggc 120

cgcgggggag cccgcttcac cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360



aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
tgaccagttcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcttggtgtg  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1613

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1613

gtccccactc catgaggtat ttctacaccg ccattgtccc gcccggccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgggcc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1614

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1614

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacggcg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag  
acgctgcagg 540

gcgcgg  
546

<210> 1615

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1615

gtcccaactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcgc 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1616  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1616  
gctccactc catgaggtat ttctacaccg ccattgccg gcccgccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgcgc 120

cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacctggg gccggacggg cgccctctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1617  
<211> 546

<212> DNA  
<213> Homo sapiens

<400> 1617  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180  
  
accgggagac acagaagtac aagggccagg cacagactga ccgagagagc  
ctgcggaacc 240  
  
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatgggt 300  
  
gcgacctggg gccggacggg cgctctctcc gcgggcataa ccagttagcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1618  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1618  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1619

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1619

gctcccactc catgaggat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagtctgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacgct 300

gcgacctggg gccggacggg cgctctctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcggg gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1620

<211> 895

<212> DNA

<213> Homo sapiens

<400> 1620

atgcgggtca cggcaccccg aaccctctc ctgctgctct ggggggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcgggggag cccgcttcat cgcagtgggc tacgtggagc acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgac gggcgctcc tccgcgggca  
tgaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacaggagacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atggg 895

<210> 1621

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1621

atgcgggtca cggcaccccg aaccgtcctc ctgctgtctt ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg cccggggcgc catggataga  
gcaggagggg 240

ccggagtatt gggacgggga gacacggaac atgaaggcct ccgcgcagac  
ttaccgagag 300

aacctcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360



gtgatgtatg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccaaagcccc tcaccctgag  
atgggagcca 900

tcttcccaat ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1622

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1622

gtccccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac  
ctcgggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccaggtg  
atgtatggct 300

gcgacgtggg gccggacggg cgectcctcc gcgggcatga ccagtctgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggtct 420

agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtggtg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1623

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1623

atgcgggtca cggcaccccg aaccgtcttc ctgtctgtct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcac cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggacgggga gacacggaac atgaaggcct ccgcgcagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

gtgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagcgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga ccccccaaag acacatgtga cccaccacc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccaaagcccc tcaccctgag  
atgggagcca 900

tcttcccaat ccaccgtccc catcgtgggc attgttctg gcttggtgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1624

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1624

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ggccctgacc 60

gagacctggg	ccggctccca	ctccatgagg	tatttctaca	ccgccaatgtc
ccggccccggc	120			
cgcgggggagc	cccgccttcat	cgcagtgggc	tacgtggacg	acaccacagtt
cgtgaggttc	180			
gacagcgacg	ccgcgagttcc	gaggatggcg	ccccgggcgc	catggataga
gcaggagggg	240			
ccggagtatt	gggacgggga	gacacggaac	atgaaggcct	ccgcgcagac
ttaccgagag	300			
aacctgcgga	tcgcgctccg	ctactacaac	cagagcgagg	ccgggtctca
catcatccag	360			
gtgatgtatg	gctgcgacgt	ggggccggac	gggcgcctcc	tccgcgggca
taaccagtac	420			
gcctacgacg	gcaaggatta	catgcacctg	aacgaggacc	tgagctcctg
gaccgcggcg	480			
gacacggcgg	ctcagatcac	ccagcgcaag	tgggaggcgg	cccgtgtggc
ggagcagctg	540			
agagcctacc	tggagggcct	gtgcgtggag	tggtccgca	gatacctgga
gaacgggaag	600			
gagacgtcgc	agcgcgcgga	ccccccaaag	acacatgtga	cccaccaccc
catctctgac	660			
catgaggcca	ccctgaggtg	ctgggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacaccgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttcagaa	gtgggcagct	gtggtggtgc	cttctggaga
agagcagaga	840			
tacacatgcc	atgtacagca	tgaggggctg	ccaaagcccc	tcaccctgag
atgggagcca	900			
tcttcccaat	ccaccgtccc	catcgtgggc	attgttgctg	gcctggctgt
cctagcagtt	960			

gtggtcatcg gagctgtggt cgtgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1625

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1625

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcgc 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccaggtg  
atgtatggct 300

gcgacgtggg gccggacggg cgccctcctc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acagcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgtgcagc 540

gcgcggaccc cccaaagaca catgtgacct accaccccat ctctgacct  
gagccacct 600

tgaggtgctg ggccctgggc ttctacctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tgcagcatga ggggctgcca aagcccctca ccctgagatg gg  
822

<210> 1626

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1626

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagggtg  
atgtatggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggtct 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtggtg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg

546

<210> 1627

<211> 546

<212> DNA  
<213> Homo sapiens

<400> 1627  
gtccccactc catgagggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcacgcg agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcgc 120  
  
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180  
  
acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac  
ctgcggatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300  
  
gcgacctggg gcccgacggg cgctcctcc gcgggtataa ccagtacgcc  
tacgacgca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcgctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1628  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1628  
atgcgggtca cggcaccccg aaccgtctc ctgtgtctct ggggggcagt  
ggccctgacc 60  
  
gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cgtgaggttc	cccgcttcat 180	cgcagtgggc	tacgtggacg	acaccagtt
gacagcgacg gcaggagggg	ccgcgagtcc 240	gaggatggcg	ccccgggcgc	catggataga
ccggagtatt ttaccgagag	gggacgggga 300	gacacggaac	atgaaggcct	ccgcgcagac
aacctgcgga catcatccag	tcgcgctccg 360	ctactacaac	cagagcgagg	ccgggtctca
gtgatgtatg tgaccagtcc	gctgcgacgt 420	ggggccggac	gggcgcctcc	tccgcgggca
gcctacgacg gaccgcggcg	gcaaggatta 480	catcgccctg	aacgaggacc	tgagctcctg
gacacggcgg ggagcagctg	ctcagatcat 540	ccagcgcaag	tgggaggcgg	cccgtgtggc
agagcctacc gaacgggaag	tggagggcct 600	gtgcgtggag	tggctccgca	gatacctgga
gagacgctgc catctctgac	agcgcgcgga 660	ccccccaaag	acacatgtga	cccaccaccc
catgaggcca cacactgacc	ccctgagggtg 720	ctggggccctg	ggcttctacc	ctgcggagat
tggcagcggg cagaccagca	atggcgagga 780	ccaaactcag	gacaccgagc	ttgtggagac
ggagatagaa agagcagaga	ccttccagaa 840	gtgggcagct	gtggtggtgc	cttctggaga
tacacatgcc atgggagcca	atgtacagca 900	tgaggggctg	ccaaagcccc	tcaccctgag
tcttcccaat cctagcagtt	ccaccgtccc 960	catcgtgggc	attgttgctg	gcctggctgt
gtggtcatcg aggtgga	gagctgtggt 1017	cgtcgtctgtg	atgtgtagga	ggaagagctc



<210> 1629  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1629  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cccagtctgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagggt  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcggg gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1630  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1630  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac  
ctgcg gatcg 240

cgctccccta ctacaaccag agcgaggccg ggtctcacat catccagggtg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc  
tacgacgga 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1631

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1631

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgggccg  
gggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac  
ctgcg gatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccaggtg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtaggcc  
tagcagggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
acggcggtct 420

agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgctgcagc 540

gcgcgg  
546

<210> 1632

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1632

atgcgggtca cggcgccccg aaccgtcttc ctgctgtctt ggggggcagt  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcac cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggacgggga gacacggaac atgaaggcct ccgcgcagac  
ttaccgagag 300

aacctcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgac gggcgctcc tccgcggga  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccttgagggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtgtgtc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttccagct ccaccatccc catcgtgggc attgttctgt gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1633

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1633

atgcgggtca cggcgccccg aaccgtcctc ctgctgtctc ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg cgcgcgagtc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggacgggga gacacggaac atgaaggcct ccgcgcagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tgatgtatg gctgcgacct gggggccgac gggcgccctc tcgcggggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccacc  
cgtctctgac 660

catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtgtgac cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttccagtc ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1634

<211> 619

<212> DNA  
<213> Homo sapiens

<400> 1634  
atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60  
  
gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180  
  
gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240  
  
ccggagtatt gggacgagga gacacggaac atgaaggcct ccgcgcagac  
ttaccgagag 300  
  
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360  
  
aggatgtatg gctgcgacct ggggcccgcg gggcgctcc tccgcgggca  
tgaccagtcc 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480  
  
gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540  
  
agagcctacc tggagggcct gtgcgtggag tggtccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcgcgg  
619

<210> 1635  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1635  
gtcccactc catgaggat ttctacaccg ccatgtcccg gcccgccgcg  
gggagcccc 60

gcttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgcc 120

cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc  
tacgacgca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagttg gaggcgggccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1636

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1636

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
gggagcccc 60

gcttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgcc 120

cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgctgcagc 540

gcgcgg  
546

<210> 1637

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1637

gtccccactc catgaggtat ttctacaccg ccatgtcccc gcccggccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcgg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420



agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1638

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1638

atgcggtca cggcaccccg aaccctctc ctgctgctct ggggggccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacct ggggccggac gggcgccctc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggtccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtggggcagct gtggtgtgac cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttccagtc ccaccatccc catcgtgggc attgttctgt gcctgggtgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1639

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1639

atgctggtca tggcgccccg aaccgtcctc ctgctgtctc cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctcgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgctgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttcagaa gtgggcagct gtggtgtgtc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
agggtga 1017

<210> 1640

<211> 541

<212> DNA

<213> Homo sapiens

<400> 1640

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ggggagcccc 60

gcttcatttc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtct 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtggt ctcgcagat acctggagaa cgggaaggag  
acgtctgcagc 540

g  
541

<210> 1641

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1641

atgtcgtgta tggcgccccc aaccgtcttc ctgtctgtct cggcgccctt  
ggccctgacc 60

gagacctggg ccggtcccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

cgcgggggag cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgcagct ggggcccggac gggcgccctcc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga ccccccaaag acacatgtga cccaccacc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttccagtc ccaccgtccc catcgtgggc attgttgctg gcttggtgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1642

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 1642

atgctggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg cgggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcctggc 120

cgcgggggagc cccgcttcat caccgtgggc tacgtggagc acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tgcaaggcca aggcacagac  
tgaccgagtg 300

ggcctgcgga acctgcgcgg ctactacaac cagagcgagg acgggtctca  
cacttgcgag 360

acgatgtatg gctgcgacat ggggccggac gggcgccctc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacaggagacc tgcgctcctg  
gaccgcgcgc 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccga gacacctgga  
gaacgggaag 600

gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaca  
agaacagaga 840

tacacgtgcc atgtgcagca cgaggggctg caggagccct gcaccctgag  
atggaagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
ccttggtgtc 960

accgtagctg tggtcgctgt ggtcgctgct gtgatgtgta ggaggaagag  
ctcaggtgga 1020

<210> 1643

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1643

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ggccctgacc 60

gagacctggg ccggetccca ctccatgagg tattttctaca ccgccatgtc  
ccgccccggc 120

cgcggggagc cccgcttcat tgcagtgggc tacgtggacg acaccagtt  
cgtgagggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttgccag 360

acgatgtatg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg ccgctgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttccagtt ccaccatccc catcgtgggc attgttgetg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1644

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1644

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ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag cccggggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccagagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacgt ggggccggac ggggcctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaaagatta catgcacctg aacgaggacc tgagctcctg  
gaccgcggcg 480



gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccga gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccacc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtagga 1017

<210> 1645

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1645

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ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1646

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1646

gtccccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1647

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1647

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ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggt 300

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacgga 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcggaccc cccaaagaca cacgtgacct accaccccgct ctctgacct  
gaggccacct 600

tgaggtgctg ggccttgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagccctca cctgagatg gg  
822

<210> 1648

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1648

gctccactc catgaggat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcg agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgagctggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1649  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1649  
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ggccctgacc 60  
  
gagacctggg ccggetccca ctccatgagg tatttctaca cctccgtgtc  
ccgccccggc 120  
  
cgcgggggagc cccgcttcat ctcagtgggc tacgtggacg acaccagtt  
cgtgagggttc 180  
  
gacagcgacg ccgcgagtcg gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240  
  
ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300  
  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360  
  
agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgag 480  
  
gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg cccgtgtggc  
ggagcagctg 540  
  
agagcctacc tggaggggcg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccacc  
catctctgac 660  
  
catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtggacagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagccg 900

tcttccagtc ccaccgtccc catcgtgggc attgttctgt gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
tggtgga 1017

<210> 1650

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1650

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ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgagttctgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtttggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat gcgccgaac gaggacctga gctcctggac cgcggcggac  
accgcgctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

aggacctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1651  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1651  
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ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttctaca ccgctatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcg gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtttg gctgcgacct gggggccgac gggcgccctc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggaggggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttccagtg ccaccatccc catcgtgggc attgttctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt tgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1652

<211> 620

<212> DNA

<213> Homo sapiens

<400> 1652

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ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatcag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
tgaccaggac 420



gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcggb  
620

<210> 1653

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1653

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gagacctggg cctgctccca ctccatgaag tatttcttca catccgtgtc  
ccggcctggc 120

cgcggagagc cccgcttcac ctcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcg gagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg cggggtctca  
caccctccag 360

tggatgtgtg gctgcgacct ggggcccgac gggcgccctc tccgcgggta  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagtggg atggggagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtgatgtgac cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag  
atgggagccg 900

tcttcccagc ccaccatccc catcgtgggc atcgttgtg gcttggtgtg  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctggt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1654

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1654

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gagacctggg cctgctccca ctccatgaag tatttcttca catccgtgtc  
ccggcctggc 120

cgcgaggagc cccgcttcat ctcagtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgacg	ccgcgagtc	gagaggggag	ccgcgggcgc	cgtgggtgga
gcaggagggg	240			
ccggagtatt	gggaccggga	gacacagaag	tacaagcgc	aggcacagac
tgaccgagtg	300			
agcctgcgga	acctgcgcgg	ctactacaac	cagagcgagg	ccgggtctca
cacctccag	360			
tggatgtgtg	gctgcgacct	ggggcccgc	gggcgcctcc	tccgcgggta
taaccagtcc	420			
gcctacgacg	gcaaggatta	catcgccctg	aacgaggacc	tgcgctcctg
gaccgcgcgc	480			
gacaccgcgg	ctcagatcac	ccagcgcaag	tgggagggcg	cccgtgaggc
ggagcagcgg	540			
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gaacgggaag	600			
gagacgctgc	agcgcgcgga	acacccaaag	acacacgtga	cccaccatcc
cgtctctgac	660			
catgaggcca	ccctgaggtg	ctggggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagtggg	atggggagga	ccaaactcag	gacaccgagc	ttgtggagac
caggccagca	780			
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agagcagaga	840			
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atgggagccg	900			
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cctggctgtc	960			
ctagctgtcc	taggagctgt	ggtggctgtt	gtgatgtgta	ggaggaagag
ctcaggtgga	1020			
aaaggaggga	gctgctctca	ggctgcgtcc	agcaacagt	cccagggctc
tgatgagtct	1080			

ctcatcgctt gtaa  
1094

<210> 1655  
<211> 1094  
<212> DNA  
<213> human leukocyte

<400> 1655  
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ggccctgacc 60

gagacctggg cctgctccca ctccatgaag tatttcttca catccgtgtc  
ccggcctggc 120

cgcgagagac cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tggatgtgtg gctgcgacct ggggcccgac gggcgctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgtcgg 480

gacacggcgg ctacagatcac ccagcgcaag tgggaggcgg ccctgagggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcacctgag  
atgggagcca 900

tcttccagc ccaccatccc catcgtgggc atcgttgcgt gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1656

<211> 546

<212> DNA

<213> human leukocyte

<400> 1656

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ggagagcccc 60

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agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtctggct 300

gcgacctggg gcccgacggg cgccctctcc gcgggtatga ccagtagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

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acgtgcagc 540

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546

<210> 1657

<211> 546

<212> DNA

<213> human leukocyte

<400> 1657

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agcgacgcg 120

cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtgtggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggsaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1658  
<211> 546  
<212> DNA  
<213> human leukocyte

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agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtgtggct 300

gcgacctggg gcccgacggg cgccctctcc gcaggatatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gtccttgac cgccgaggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1659  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1659

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agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtgtggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggcct gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1660

<211> 546

<212> DNA

<213> human leukocyte

<400> 1660

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agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180



accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtgtggct 300

gcgacctggg gcccgacggg cgccctctcc gcgggtatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcccgggac  
accgcggtcc 420

agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgctgcagc 540

gcgcgg  
546

<210> 1661

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1661

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gagacctggg cctgctccca ctccatgagg tatttctaca ccgctgtgtc  
ccggcccagc 120

cgcgagagac ccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

aactcgcgga aactacgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacct ggggcccgcac gggcgccctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcccgcg 480

gacacagcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggaggggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgagggtg ctggggccctg ggcttctacc ctacggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtaggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctggt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1662

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1662

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ccggcccagc 120

cgcgagagc cccacttcac cgcagtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

aactgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacct ggggcccgac gggcgccctc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacagcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtg 540

agagcctacc tggaggggga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgtcgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctacggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatgaa ccttcagaa gtgggcagct gtggtgtgtc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgetg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctggt gtgatgtgta ggaggaagag  
ctcagggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccaggggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1663

<211> 546

<212> DNA

<213> human leukocyte

<400> 1663

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agcgacgcgc 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accggggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acagcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggsaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1664  
<211> 1015  
<212> DNA  
<213> human leukocyte

<400> 1664  
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ccggcccagc 120  
  
cgcgggagagc ccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180  
  
gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240  
  
ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300  
  
aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360  
  
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tgaccagtc 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccg 480  
  
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ggagcagtgg 540  
  
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gaacgggaag 600  
  
gagacgtcgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660  
  
catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag  
atgggagcca 900

tcttccagc ccaccatccc catcgtgggc atcgttgetg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag  
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<210> 1665

<211> 546

<212> DNA

<213> human leukocyte

<400> 1665

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agcgacgcgc 120

cgagtccaag aggggagccg cgggcgccgt gggtaggaca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtcc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcgagtg cgtggagtg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1666  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1666  
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agcgacgcgc 120

cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctcggaaac 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacctggg gcccgacggg cgccctctcc gcgggtatga ccagtccgc  
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aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acagcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1667  
<211> 546

<212> DNA  
<213> human leukocyte

<400> 1667  
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agcgacgccg 120  
  
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gagtattggg 180  
  
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atgtacggct 300  
  
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tacgacggca 360  
  
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acagcggtc 420  
  
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gcctacctgg 480  
  
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acgctgcagc 540  
  
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546

<210> 1668  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1668  
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agcgacgccg 120



cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtccgc  
tacgacgca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
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agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1669

<211> 546

<212> DNA

<213> human leukocyte

<400> 1669

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agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaac 240

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atgtacggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcggg gcagtggaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
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gcgcgg  
546

<210> 1670

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1670

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gagacctggg ccggctccca ctccatgagg tatttctaca ccgctgtgtc  
ccggccccgg 120

cgcgggggag ccacttcat cgcagtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtc gagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcctccag 360

aggatgtatg gctgcgacgt ggggcccgac gggcgctcc tccgcgggta  
tgaccagtc 420

gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
gaccgcgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
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agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgaa  
gaatgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagtggg atgggggagga ccaaactcag gacactgagc ttgtggagac  
cagccagca 780

ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag  
atgggagcca 900

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cctggctgtc 960

ctagctgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

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tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1671

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1671

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ccggcccggc 120

cgcggggagc cccacttcac cgagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcg gagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcctccag 360

aggatgtatg gctgcgacgt gggggccgac gggcgccctc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg ccctgaggcg  
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agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgaa  
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gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagtggtg atggggagga ccaaactcag gacactgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagccg 900

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cctggctgtc 960

ctagctgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggtgcgtcc agcaacagt cccaggggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1672

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1672

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gagacctggg ccggtctcca ctccatgagg tatttctaca ccgctgtgtc  
ccggccccggc 120

cgcggggagc ccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtc gagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccaggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggccccgac gggcgccctc tccgcgggta  
tgaccagtac 420

gctacgacg gcaaggatta catgcacctg aacgaggatc tgcgtcctg  
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ggagcagctg 540

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agagcagaga 840

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atgggagccg 900

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cctggctgtc 960

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ctcaggtgga 1020

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<210> 1673

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1673

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ccggcccggc 120

cgcggggagc ccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccaggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggcccgac gggcgccctcc tccgcgggta  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
gaccgccgcg 480

gacacggcgg cccagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
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gagacgtcgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

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cacactgacc 720

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caggccagca 780

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agagcagaga 840

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cctggctgtc 960

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tgatgagtct 1080

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1094

<210> 1674

<211> 546

<212> DNA

<213> human leukocyte

<400> 1674

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cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgcgc  
ctgcggaacc 240

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tacgacggca 360

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acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

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gcgcgg  
546

<210> 1675

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1675

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gagacctggg ccggctccca ctccatgagg tatttctaca ccgctgtgtc  
ccggcccggc 120



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gcaggagggg	240			
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gaatgggaag	600			
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cgtctctgac	660			
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cacactgacc	720			
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ctcaggtgga	1020			

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tgatgagtct 1080

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1094

<210> 1676  
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<212> DNA  
<213> human leukocyte

<400> 1676  
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agcgacgcgc 120

cgagtccgag agggggagccg cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctcggaacc 240

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atgtacggct 300

gcgacgtggg gcccgacggg cgccctctcc gcgggtatga ccagtacgcc  
tacgacggca 360

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gcctacctgg 480

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gcgcgg  
546

<210> 1677  
<211> 546

<212> DNA  
<213> human leukocyte

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agcgacgccg 120  
  
cgagtccgag aggggagccg cgggcgccgt gggaggagca ggagggggccg  
gagtattggg 180  
  
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ctgcggaacc 240  
  
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atgtacggct 300  
  
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tacgacggca 360  
  
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acggcggtct 420  
  
agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagctgaga  
gcctacctgg 480  
  
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acgctgcagc 540  
  
gcgcgg  
546

<210> 1678  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1678  
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agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

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atgtatggct 300

gcgacgtggg gcccgacggg cgctctctcc gcgggtatgt ccagtacgcc  
tacgacggca 360

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acgcgggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

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gcgcgg  
546

<210> 1679

<211> 546

<212> DNA

<213> human leukocyte

<400> 1679

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agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacgtggg gcccgacggg cgctcctcc gcgggtatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcggg gcagctgaga  
gcctacctgg 480

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acgtgcagc 540

gcgcgg  
546

<210> 1680

<211> 1015

<212> DNA

<213> human leukocyte

<400> 1680

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ccggcccggc 120

cgcggggagc ccacttcat cgcagtgggc tacgtggagc acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtc gagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaac tacaagcgcc aggcacagac  
tgaccgagtg 300

agctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggcccgac gggcgctcc tccgcgggta  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
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gaatgggaag 600

gagacgtgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

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cacactgacc 720

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agagcagaga 840

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tcttccagc ccaccatccc catcgtgggc atcgtgtctg gcctggctgt  
cctggctgtc 960

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<210> 1681

<211> 546

<212> DNA

<213> human leukocyte

<400> 1681

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agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

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gcgaacctggg gcccgacggg cgctctctcc gcgggtatga ccagtaggcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

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546

<210> 1682

<211> 546

<212> DNA

<213> human leukocyte

<400> 1682

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agcgacgcg 120

cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
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gcgaagtggg gcccgacggg cgctctctcc gcgggtatga ccagtaggcc  
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546

<210> 1683  
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<212> DNA  
<213> human leukocyte

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agcgacgcgc 120

cgagtcgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggcca ggtctcacat catccagagg  
atgtatggct 300

gcgacgtggg gcccgacggg cgctctctcc gcgggtatga ccagtacgcc  
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aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
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agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
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acgctgcagc 540

gcgcgg  
546



<210> 1684  
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<212> DNA  
<213> human leukocyte

<400> 1684  
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agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggcca ggtctcacat catccagagg  
atgtatggct 300

gcgacgtggg gcccgacggg cgctcctcc gcgggtatga ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
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546

<210> 1685  
<211> 1094  
<212> DNA  
<213> human leukocyte

<400> 1685

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ccggccccgc	120			
cgcgggggagc	cccattcat	cgcagtgggc	tacgtggacg	acacgcagtt
cgtgcggttc	180			
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gcaggagggg	240			
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tgaccgagtg	300			
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cacctccag	360			
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ggagcagctg	540			
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gaatgggaag	600			
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cgtctctgac	660			
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cacactgacc	720			
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agagcagaga	840			
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atgggagccc	900			

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cctggctgtc 960

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ctcaggtgga 1020

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tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1686

<211> 546

<212> DNA

<213> human leukocyte

<400> 1686

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agcgacgcgc 120

cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc  
gagtattggg 180

accggggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgagctggg gcccgacggg cgctctctcc gcgggtatga ccagtccgcc  
tacgacggca 360

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agatcaccca gcgcaagttg gaggcgggcc gtgcggcgga gcagctgaga  
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gcgcgg  
546

<210> 1687  
<211> 546  
<212> DNA  
<213> human leukocyte

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cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaac 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcatat cctccagagg  
atgtatgct 300

gcgacgtggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

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gcctacctgg 480

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acgctgcagc 540

gcgcgg  
546

<210> 1688  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1688

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agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcatgaacc 240

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gcgacgtggg gcccgacggg cgctctctcc gcgggtatga ccagtccgc  
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aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

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gcgcgg  
546

<210> 1689

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1689

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gagacctggg ccggctccca ctccatgagg tatttctcca catccgtgtc  
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gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

aactgcgga aactgcgcg ctactacaac cagagcgagg acgggtctca  
caccctccag 360

aggatgtttg gctgcgacct ggggccggac gggcgccctcc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
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cgtctctgac 660

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cacactgacc 720

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caggccagca 780

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agagcagaga 840

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cctggctgtc 960

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ctcaggtgga 1020

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1094

<210> 1690  
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<212> DNA  
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agcgacgcgc 120

cgagtccaag aggggagccg cgggagccgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaaac 240

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atgtttggct 300

gcgacctggg gccggacggg cgccctctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gtccttgac cgccgaggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
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546

<210> 1691  
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<212> DNA  
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 ccggcccagc 120  
  
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 cgtgcggttc 180  
  
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 gcaggagggg 240  
  
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 tgaccgagtg 300  
  
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 caccctccag 360  
  
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 taaccagttc 420  
  
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 gaccgccg 480  
  
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 gaacgggaag 600  
  
 gagacgtcgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
 cgtctctgac 660  
  
 catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
 cacactgacc 720  
  
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 agagcagaga 840  
  
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 atggaagccg 900



tcttcccagc ccaccatccc catcgtgggc atcgttgetg gcctggctgt  
cctggctgtc 960

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ctcaggtgga 1020

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1094

<210> 1692

<211> 546

<212> DNA

<213> human leukocyte

<400> 1692

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cgagtccaag aggggagccg cgggagccgt ggggtggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
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atgtttggct 300

gcgacctggg gccggacggg cgctctctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat gcgcctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1693  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1693  
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agcgacgcgc 120  
  
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gagtattggg 180  
  
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ctgcggaaac 240  
  
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atgtttggct 300  
  
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tacgacggca 360  
  
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acggcggtc 420  
  
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546

<210> 1694  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1694

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agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
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gcgacctggg gccggacggg cgctctctcc gcgggtataa ccagttcgcc  
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agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
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gcgcgg  
546

<210> 1695

<211> 546

<212> DNA

<213> human leukocyte

<400> 1695

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agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
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gcctacctgg 480

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gcgcgg  
546

<210> 1696

<211> 546

<212> DNA

<213> human leukocyte

<400> 1696

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agcgacgccg 120

cgagtccaag aggggagccg cgggagccgt gggtaggca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaac 240

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atgtttggct 300

gcgacctggg gccggacggg cgctctctcc gcgggtataa ccagttcgcc  
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gcctacctgg 480

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546

<210> 1697

<211> 546

<212> DNA

<213> human leukocyte

<400> 1697

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agcgacgccg 120

cgagtccaag aggggagccg cgggagccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggtta ctacaaccag agcgaggacg ggtctcacac cctccagagg  
atgtttggct 300

gcgacctggg gccggacggg cgctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

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acggcggtct 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgctgcagc 540

gcgcgg  
546

<210> 1698  
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<212> DNA  
<213> human leukocyte

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ggccctgacc 60

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ccggcccggc 120

cgcgaggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcagttc 180

gacagcgacg ccgcgagtc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtatg gctgcgacct gggggccgac gggcgctcc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aatgaggacc tgcgctcctg  
gaccgcccgg 480

gacaaggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
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gaacgggaag 600

aagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

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atgggggcca 900

tcttccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
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ctcaggtgga 1020

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tgatgagtct 1080

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1094

<210> 1699

<211> 546

<212> DNA

<213> human leukocyte

<400> 1699

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agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaat gaggacctgc gctcctggac cgccgcggac  
aaggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcatgtg cgtggagtgg ctgcgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg

546

<210> 1700

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1700

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gagacctggg cctgctccca ctccatgagg tatttctaca ccgccgtgtc  
ccggcccggc 120

cgcgagagac cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcagttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
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ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

aactgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

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gaccgccgcg 480

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aagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgagggtca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
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atgggggcca 900

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cctggctgtc 960

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tgatgagtct 1080

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1094

<210> 1701

<211> 546

<212> DNA

<213> human leukocyte

<400> 1701

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agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaat gaggacctgc gctcctggac cgcccgggac  
aaggcggtc 420

agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

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546

<210> 1702

<211> 546

<212> DNA

<213> human leukocyte

<400> 1702

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agcgacgccg 120

cgagtccaag aggggagccg cgggcccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacgtggg gcccgacggg cgctctctcc gcgggtataa ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaat gaggacctgc gtcctctggac cgccgcggac  
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gcctacctgg 480

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546

<210> 1703

<211> 546

<212> DNA

<213> human leukocyte

<400> 1703

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agcgacgccg 120

cgagtccaag aggggagccg cgggcgcggt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgccctctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaat gaggacctgc gtcctctggac cgccgcggac  
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agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaagaag  
acgctgcagc 540

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546

<210> 1704  
<211> 1094  
<212> DNA  
<213> human leukocyte

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ccggcccggc 120

cgcgaggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgcgggttc 180

gacagcgacg ccgcgagtcg gagaggggag ccccgggcgc cgtgggttga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg acgggtctca  
caccctccag 360

tggatgtatg gctgcgacct ggggcccgcg gggcgctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg  
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gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
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gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
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catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
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ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
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tcttccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

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1094

<210> 1705

<211> 546

<212> DNA

<213> human leukocyte

<400> 1705

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agcgacgccg 120

cgagtccgag aggggagccc cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtaga ccagtccgcc  
tacgacggca 360

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acggcggtct 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

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546

<210> 1706

<211> 546

<212> DNA

<213> human leukocyte

<400> 1706

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gagtattggg 180

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gagtattggg 180

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acggcggtc 420

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546

<210> 1708  
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<400> 1708

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gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
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gcgacctggg gcccgacggg cgccctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcccgggac  
acggcggtct 420

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gcctacctgg 480

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acgctgcagc 540

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gcgaggacca aactcaggac accgagcttg tggagaccag gccagcagga  
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ccatccccat cgtgggcata gttgctggcc tggctgtcct ggctgtccta  
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942

<210> 1709  
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<212> DNA  
<213> human leukocyte

<400> 1709  
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agcgacgccg 120

cgagtccgag aggggagccc cgggcgccgt gggaggagaa ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagtgg  
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acggcggtc 420

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546

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 acgcggcctc 420  
  
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<210> 1711  
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 <212> DNA  
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 agcgacgccg 120

cgagtccgag aggggagccc cgggcgccgt gggaggagca ggaggggccg  
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accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaaac 240

tgcgcggtta ctacaaccag agcgaggacg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacctggg gcccgacggg cgccctcctc gcgggtataa ccagttcgcc  
tacgacggca 360

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gcctacctgg 480

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546

<210> 1712

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1712

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ccggcccggc 120

cgcgaggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcgggcgc cgtgggtgga  
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tgaccgagtg 300

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caccctccag 360

aggatgtatg gctgcgacct ggggcccgac gggcgccctcc tccgcgggta  
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gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
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gagacgctgc agcgcgacga acccccaaag acacacgtga cccaccaccc  
cctctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

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caggccagca 780

ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaca  
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ctgggagcca 900

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cctggtgtgc 960

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ctcaggtgga 1020

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tgatgagtct 1080

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<210> 1713

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1713

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ccggccccggc 120

cgcgagagag cccgcttcat ctccagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcgggcgc cgtgggtgga  
gcaggaggggg 240

ccggagtatt gggaccggga gacacagaac tacaagcgc aggcacaggc  
tgaccgagtg 300

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cctctctgac 660

catgaggcca ccctgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggaggga ccagaccagc gacaccgagc ttgtggagac  
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cctggttgtc 960

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ctcaggtgga 1020

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<210> 1714

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1714

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ccggcccggc 120

cgcgagagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
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gacagcgacg ccgcgagtcc gagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

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tgaccgagtg 300

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caccctccag 360

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cctctctgac 660

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cacactgacc 720

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ctcaggtgga 1020

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tgatgagtct 1080

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<210> 1715

<211> 1022

<212> DNA

<213> human leukocyte

<400> 1715

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cagcgacgcc 120

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cctgcggaac	240			
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gatgtctggc	300			
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ctacgacggc	360			
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tgaggccacc	600			
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cacgtgccat	780			
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cgtgcggttc 180  
  
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gcaggagggg 240  
  
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tgaccgagtg 300  
  
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caccttcag 360  
  
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cacactgacc 720

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ctcaggtgga 1020

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1094

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<211> 1094

<212> DNA

<213> human leukocyte

<400> 1717

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ccggcccggc 120

cgcggagagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
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gacagcgacg ccgcgagtcc gagaggggag ccccgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

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caccttcag 360

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cacactgacc 720

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1094

<210> 1718

<211> 546

<212> DNA

<213> human leukocyte

<400> 1718

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agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccc  
gagtattggg 180

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ctgcggaacc 240

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gcgacctggg gcccgacggg cgccctcctc gcgggtatga ccagtccgc  
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aggattacat cgccctgaac gaggacctgc gctcctggac cgcccgggac  
accgcggtc 420

agatcaccca gcgcaagttg gaggcggccc gtgcggcgga gcagctgaga  
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546

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<211> 1094

<212> DNA

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gaacgggaag	600			
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cacactgacc	720			
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cctggttgct	960			
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ctcaggtgga	1020			
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tgatgagtct	1080			

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1094

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cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaactac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaaac 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatgctt 300

gcgacctggg gcccgacggg cgccctctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gtccttgac cgccgaggac  
accgcggctc 420

agatcaccca gcgcaagttg gaggcggccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggggaaggag  
acgctgcagc 540

gcgcag  
546

<210> 1721  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1721

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agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggacg ggtctcacac cctccagagg  
atgtttggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcgga  
accgcggtc 420

agatcaccca gcgcaagttg gaggcggccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcag  
546

<210> 1722

<211> 546

<212> DNA

<213> human leukocyte

<400> 1722

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agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaactac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaac 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcccgggac  
accgcggtc 420

agatcaccca gcgcaagttg gagggggccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcag  
546

<210> 1723

<211> 546

<212> DNA

<213> human leukocyte

<400> 1723

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ggagagcccc 60

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agcgacgccg 120

cgagtccgag aggggagccg cgggcccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacat catccagagg  
atgtctggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtccgcc  
tacgacggca 360



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accgcggctc 420

agatcaccca gcgcaagttg gaggcggccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcag

546

<210> 1724

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1724

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gagacctggg cctgctccca ctccatgagg tatttcgaca ccgccgtgtc  
ccggcccggc 120

cgcgagagac cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccccgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg acgggtctca  
caccttcag 360

aggatgtatg gctgcgacct ggggcccgac gggcgctcc tccgcgggta  
tgaccagttc 420

gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacaccgcgg ctcagatcac ccagcgcaag ttggaggcgg cccgtgcggc  
ggagcaggac 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

aagacgtgctc agcgcgcgga acccccaaag acacacgtga cccaccaccc  
cctctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacaccgagc ttgtggagac  
caggccagca 780

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agagcagaga 840

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ctgggagcca 900

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cctggttgtc 960

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ctcaggtgga 1020

aaaggaggga gctgctctca ggtgcgtgc agcaacagt cccagggtc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1725

<211> 546

<212> DNA

<213> human leukocyte

<400> 1725

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agcgacgccg 120

cgagtccgag aggggagccc cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cttccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcccgggac  
accgcggctc 420

agatcaccca gcgcaagtgg gagggggccc gtgcggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagaag  
acgctgcagc 540

gcgcgg  
546

<210> 1726

<211> 546

<212> DNA

<213> human leukocyte

<400> 1726

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ggagagcccc 60

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agcgacgccg 120

cgagtccgag aggggagccg cgggcccgt gggtaggca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cttccagagg  
atgtctggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gtcctctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagttg gagggggccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgctgcagc 540

gcgcag

546

<210> 1727

<211> 546

<212> DNA

<213> human leukocyte

<400> 1727

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ggagagcccc 60

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agcgacgcgc 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggacg ggtctcacac cctccagagg  
atgtacggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gtcctctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagttg gagggggccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgctgcagc 540

gcacag  
546

<210> 1728  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1728  
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ggagagcccc 60

gcttcactc agtgggctac gtggacgaca cgagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg  
atgtctggtc 300

gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac  
accgcgctc 420

agatcaccca gcgcaagttg gaggcgcccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcag  
546

<210> 1729  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1729

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gttcatctc agtgggctac gtggacgaca cgcagtctcg gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaactac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtccgc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccggcgac  
accgcggtct 420

agatcaccca gcgcaagttg gaggcggccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcag  
546

<210> 1730

<211> 822

<212> DNA

<213> human leukocyte

<400> 1730

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ggagagcccc 60

gttcatctc agtgggctac gtggacgaca cgcagtctcg gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg  
atgtctggct 300

gcgacctggg gcccgacggg cgccctcctc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcgac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggcc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgtgcagc 540

gcgcagaacc cccaaagaca cacgtgacct accacccct ctctgacct  
gaggccacct 600

tgagggtgctg ggccctgggc ttctacctg cgagatcac actgacctgg  
cagcgggatg 660

gggaggacca gaccaggac accgagcttg tggagaccag gccagcagga  
gatggaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggacaaga gcagagatac  
acgtgccata 780

tgcagcacga ggggctgcaa gagccctca ccctgagctg gg  
822

<210> 1731

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1731

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gagacctggg cctgctccca ctccatgagg tatttcgaca ccgccgtgtc  
ccggcccggc 120

cgcgagagac cccgcttcac ctcaagtggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcgggcgc cgtgggttga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaac tacaagcgcc aggcacaggc  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg acgggtctca  
caccctccag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg  
gaccgccgcg 480

gacaccgcgg ctacagatcac ccagcgcaag ttggaggcgg ccctgcgggc  
ggagcagctg 540

agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcaga acccccaaag acacacgtga cccaccaccc  
cctctctgac 660

catgaggcca ccctgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaca  
agagcagaga 840

tacacgtgcc atatgcagca cgaggggctg caagagcccc tcaccctgag  
ctgggagcca 900

tcttcccagc ccaccatccc catcatgggc atcgttgctg gcctggctgt  
cctggttgtc 960



ctagctgtcc ttggagctgt ggtcacgcgt atgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggttgctgac agcaacagt cccagggctc  
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ctcatcactt gtaa  
1094

<210> 1732

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1732

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gagacctggg cctgctccca ctccatgagg tatttctaca ccgccgtgtc  
ccggccccgc 120

cgcgagagac ccgcgttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcagttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtatg gctgcgacct ggggccccgac gggcgccctc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catgcacctg aatgaggacc tgcgctcctg  
gaccgcccgc 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg ccggtacggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

aagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggcctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcacctgag  
atgggggcca 900

tcttccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1733

<211> 546

<212> DNA

<213> human leukocyte

<400> 1733

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ggagagcccc 60

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agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggtcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacctggg gcccgacggg cgccctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaat gaggacctgc gctcctggac cgccgoggac  
acggcggtct 420

agatcaccca gcgcaagtgg gagggggccc gtacggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaagaag  
acgtgcagc 540

gcgcgg  
546

<210> 1734

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1734

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gagacctggg cctgctccca ctccatgagg tatttctaca ccgccgtgtc  
ccggcccggc 120

cgcgagagac cccgcttcac cgcagtgggc tacgtggacg acacgcagtt  
cgtgcagttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctcag 360

aggatgtatg gctgcgacct gggggcccgc gggcgctcc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aatgaggacc tgcgctcctg  
gaccgccgcg 480

gacaaggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

aagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcaccctgag  
atgggggcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1735

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1735

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gagacctggg cctgctccca ctccatgagg tattttctaca ccgccgtgtc  
ccggcccggc 120

cgcgagagac cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcagttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtatg gctgcgacct ggggcccgac gggcgccctcc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aatgaggacc tgcgtcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccttacggc  
ggagcagctg 540

agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga  
gaacaggaa 600

aagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcaccctgag  
atgggggcca 900

tttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

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<210> 1736

<211> 546

<212> DNA

<213> human leukocyte

<400> 1736

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agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggt 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat gcgcctgaat gaggacctgc gtcctcggac cgccgaggac  
aaggcggtc 420

agatcaccca gcgcaagtgg gaggcgggcc gtgaggcgga gcagctgaga  
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acgtgcgac 540

gcgcgg  
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<210> 1737  
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<212> DNA  
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gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgcgc  
ctcggaac 240

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gcgacctggg gcccgacggg cgccctctcc gcgggtataa ccagtctgcc  
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aaggcgctc 420

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gcgcgg  
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<210> 1738  
<211> 546  
<212> DNA  
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agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

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atgtatggct 300

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tacgacgca 360

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acggcggtct 420

agatcaccca gcgcaagtgg gaggcgggcc gtacggcgga gcagctgaga  
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gcgcgg  
546

<210> 1739

<211> 546

<212> DNA

<213> human leukocyte

<400> 1739

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agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240



tgcgcggcta ctacaaccag agcgaaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaat gaggacctgc gctcctggac cgccgcggac  
aaggcggtc 420

agatcaccca gcgcaagttg gagggcgccc gtgaggcgga gcagcggaga  
gcctacctgg 480

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gcgcgg  
546

<210> 1740

<211> 546

<212> DNA

<213> human leukocyte

<400> 1740

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agcgacgcg 120

cgagtccaag agggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

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atgtatggct 300

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tacgacggca 360

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acggcggtc 420

agatcaccca gcgcaagtgg gagggcgccc gtacggcgga gcagctgaga  
gcctacctgg 480

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acgtgcagc 540

gcgcgg  
546

<210> 1741

<211> 687

<212> DNA

<213> human leukocyte

<400> 1741

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ccggcccggc 120

cgcgagagc cccgcttcac cgcagtgggc tacgtggacg acacgcagtt  
cgtgcagttc 180

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ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagac  
tgaccgagtg 300

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caccctccag 360

aggatgtatg gctgcgacct ggggcccgac gggcgccctc tccgcgggta  
tgaccagtc 420

gcctacgacg gcaaggatta catcgccctg aatgaggacc tgcgtcctg  
gaccgccg 480

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gaacggggag 600

aagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggcc  
687

<210> 1742

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1742

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gagacctggg cctgctccca ctccatgagg tatttctaca ccgccgtgtc  
ccggccccgg 120

cgcggagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

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caccctccag 360

aggatgtacg gctgcgacct ggggcccgcg gggcgccctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgctgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg ccggtgaggc  
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gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
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cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

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1094

<210> 1743

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1743

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ccggcccggc 120

cgcgagagag cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacct ggggcccgcac gggcgccctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgctgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

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gaacgggaag 600

gagacgtcgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

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cagccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

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atgggagcca 900

tcttccagc ccaccatccc catcgtgggc atcgttgctg gcttggtgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

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1094

<210> 1744

<211> 546

<212> DNA  
<213> human leukocyte

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agcgacgccg 120  
  
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acggcggtct 420  
  
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acgctgcagc 540  
  
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546

<210> 1745  
<211> 1094  
<212> DNA  
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ccggccccgc 120

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tgaccgagtg 300

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caccctccag 360

tggatgtatg gctgcgacct gggggccgac gggcgccctc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
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catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

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ctcaggtgga 1020

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1094

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<212> DNA  
<213> human leukocyte

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agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctcggaacc 240

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gcgacctggg gcccgacggg cgccctctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
acggcggtct 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
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gcgcgg  
546

<210> 1747  
<211> 681



<212> DNA  
<213> human leukocyte

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ccggcccggc 120  
  
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cgtgcggttc 180  
  
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gcagggaggg 240  
  
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caccctccag 360  
  
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ggagcagtgg 540  
  
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gaacgggaag 600  
  
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681

<210> 1748  
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<212> DNA  
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<400> 1748

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cgcgagagc cccgcttcac cgcagtgggc tacgtggacg acacgcagtt  
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gacagcgacg ccgcgagtcc aagaggggag ccgcgggcgc cgtgggtgga  
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ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

aactcgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tggatgtatg gctgcgacct ggggcccgac gggcgccctcc tccgcgggta  
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gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
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ggagcagtg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
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gagacgtcgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

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cacactgacc 720

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caggccagca 780

ggagatgtaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
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ctcaggtgga 1020

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1094

<210> 1749

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1749

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ccggcccggc 120

cgcggagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
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ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

aactcgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tggatgtatg gctgcgacct ggggcccgac gggcgccctc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gactgcgcg 480

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gaacgggaag 600

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tgatgagtct 1080

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1094

<210> 1750

<211> 546

<212> DNA

<213> human leukocyte

<400> 1750

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agcgacgcgc 120

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gagtattggg 180

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gcctacctgg 480

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546

<210> 1751

<211> 546

<212> DNA

<213> human leukocyte

<400> 1751

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gagtattggg 180

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tacgacggca 360

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acggcggtc 420

agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagtggaga  
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<210> 1752

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<212> DNA

<213> human leukocyte

<400> 1752

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gcaggagggg 240

ccggagtatt gggaccggga gacacagaac tacaagcgcc aggcacaggc  
tgaccgagtg 300

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caccctccag 360

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tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgctgcg 480

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gaacgggaag 600

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cgtctctgac 660

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cacactgacc 720

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caggccagca 780

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agagcagaga 840

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cctggctgtc 960

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<212> DNA

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<400> 1753

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cgtgcggttc 180

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gaacgggaag	600			
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cgtctctgac	660			
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cacactgacc	720			
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atgggagccg	900			
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1094

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<212> DNA  
<213> human leukocyte

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agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

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ctgcggaacc 240

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<210> 1755  
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<400> 1755

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ccggcccggc 120

cgcggggagc ccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

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gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agctcgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tggatgtttg gctgcgacct ggggcccgac gggcgccctc tccgcgggta  
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gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
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gagacgtcgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

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cacactgacc 720

tggcagtggg atggggagga ccaaactcag gacaccgagc ttgtggagac  
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1094

<210> 1756

<211> 546

<212> DNA

<213> human leukocyte

<400> 1756

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agcgacgcg 120

cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc  
gagtattggg 180

accggggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaacc 240

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atgtttggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtccgcc  
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acggcggtc 420

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gcgcgg  
546

<210> 1757  
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agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

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tacgacggca 360

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acggcgctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
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546

<210> 1758  
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<400> 1758

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cgcgagagc cccacttcac cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

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gcaggagggg 240

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tgaccgagtg 300

aactgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

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gagacgctgc agcgcgcgga acaccCAAAG acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgagggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

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1094

<210> 1759

<211> 546

<212> DNA

<213> human leukocyte

<400> 1759

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gagtattggg 180

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ctgcggaaac 240

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ccggccccgc 120

cgcgagagac ccacttcat cgcagtgggc tacgtggacg acacgcagtt  
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gcaggagggg 240

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tgaccgagtg 300

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catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
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<210> 1761

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<212> DNA

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tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360



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<211> 1094

<212> DNA

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<400> 1762

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ccggcccggc	120			
cgcggagagc	cccattcat	cgcagtgggc	tacgtggacg	acacgcagtt
cgtgcggttc	180			
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gcaggagggg	240			
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cgtctctgac	660			
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cacactgacc	720			
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<211> 1094

<212> DNA

<213> human leukocyte

<400> 1763

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gaccgcgcg 480

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<210> 1764

<211> 1015

<212> DNA

<213> human leukocyte

<400> 1764

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tgaccgagtg 300

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catcatccag 360

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tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
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<211> 546

<212> DNA

<213> human leukocyte

<400> 1765

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cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggagggggccg  
gagtattggg 180

accgggagac acagaactac aagcgccagg cacagactga ccgagtggagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcatat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagttagcc  
tacgacggca 360

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acggcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga  
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<211> 546

<212> DNA

<213> human leukocyte

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agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaactac aagcgccagg cacagactga ccgagtgaac  
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atgtatggct 300

gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagttagcc  
tacgacggca 360

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<210> 1767

<211> 546

<212> DNA

<213> human leukocyte

<400> 1767

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agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaactac aagcgccagg cacagactga ccgagtgaac  
ctgcggaac 240

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atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtcgcc  
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acggcggtc 420

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gcgcgg  
546

<210> 1768

<211> 546

<212> DNA

<213> human leukocyte

<400> 1768

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cgagtccaag aggggagccg cgggcggcgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaactac aagcgccagg cacagactga ccgagtgaac  
ctgcggaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagttagcc  
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acggcggtc 420

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<210> 1769  
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<212> DNA  
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agcgacgcgc 120

cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctcggaaac 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

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tacgacggca 360

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gcgcgg  
546

<210> 1770  
<211> 1094

<212> DNA  
<213> human leukocyte

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ccggcccggc 120  
  
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caccctccag 360  
  
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cacactgacc 720  
  
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caggccagca 780  
  
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tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
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ctcaggtgga 1020

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tgatgagtct 1080

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1094

<210> 1771

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1771

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ccggcccggc 120

cgcgagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

aactgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tgtagttagt gctgcgacct ggggcccgcg gggcgctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgcggc  
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cgtctctgac 660

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cacactgacc 720

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ctcaggtgga 1020

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<210> 1772

<211> 1015

<212> DNA

<213> human leukocyte

<400> 1772

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ccggcccggc 120

cgcgaggagc	cccgccttc	cgagtgagg	tacgtggagc	acacgcagtt
cgtagcggtc	180			
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gcaggagggg	240			
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tgaccgagtg	300			
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caccctccag	360			
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tgaccagtc	420			
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gaccgcgcg	480			
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ggagcagtg	540			
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cgtctctgac	660			
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cacactgacc	720			
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caggccagca	780			
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agagcagaga	840			
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atgggagcca	900			
tcttccagc	ccaccatccc	catcgtaggc	atcgttgctg	gcctggctgt
cctggctgtc	960			
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<212> DNA  
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ccggcccggc 120  
  
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cgtgcggttc 180  
  
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gcaggagggg 240  
  
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caccatccag 360  
  
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atggaagccg 900

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<211> 895

<212> DNA

<213> human leukocyte

<400> 1774

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ccggcccggc 120

cgcgagagac ccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

aactcgcgga aactgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

aggatgtatg gctgcgacct ggggcccgac gggcgccctc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
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gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg cccgtgaggc  
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cacactgacc 720

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caggccagca 780

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<210> 1775

<211> 1014

<212> DNA

<213> human leukocyte

<400> 1775

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ccggcccggc 120

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gcaggagggg 240

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tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatcag 360

aggatgtatg gctgcgacct gggggccgac gggcgccctc tccgcgggta  
taaccagttc 420



gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
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 aacgggaagg 600  
  
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 tggaagccgt 900  
  
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 <212> DNA  
 <213> human leukocyte

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 ccggcccgcg 120  
  
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aacctgcgga aactgcgcgg ctactacaac cagagcgagg acgggtctca  
 caccctccag 360

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gagacgtgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
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1094

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<212> DNA  
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cgtgcggttc 180  
  
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gcaggagggg 240  
  
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tgaccgagtg 300  
  
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caccctccag 360  
  
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taaccagttc 420  
  
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gaccgccgcy 480  
  
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ggagcagcgg 540  
  
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gaacgggaag 600  
  
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cgtctctgac 660  
  
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cacactgacc 720

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caggccagca 780

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agagcagaga 840

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tgatgagtct 1080

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1094

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<212> DNA  
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<220>  
<223> probe for detection

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18

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ccgtctggca 120  
  
tctggaggag ttggccgag ccttttctt tgaggctcag ggcgggtgg  
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aggccgcca 240

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241

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<211> 239  
<212> DNA  
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gtctggcatc 120

tggaggagtt tggccgagcc ttttcctttg aggctcaggg cgggctggct  
aacattgcta 180

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gccgccaat 239

<210> 2014  
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<212> DNA  
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ccgtctggca 120

tctggaggag ttggccgag ccttttcctt tgaggctcag ggcgggctgg  
ctaaccattgc 180

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aggccgccaa 240

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241

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<213> Homo sapiens

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ggagtttggc 120

caagcctttt cctttgaggc tcagggcggg ctggctaaca ttgctatatc  
gaacaacaac 180

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225

<210> 2016

<211> 241

<212> DNA

<213> Homo sapiens

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ccgtctggca 120

tctggaggag ttggccaag ccttttcctt tgaggctcag ggcgggctgg  
ctaacattgc 180

tatattgaac aacaacttga ataccttgat ccagcgttcc aaccacactc  
aggccaccaa 240

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241

<210> 2017

<211> 225

<212> DNA

<213> Homo sapiens

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ggagtttggc 120

cgagcctttt cctttgaggc tcagggcggg ctggctaaca ttgctatat  
gaacaacaac 180

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225

<210> 2018

<211> 267

<212> DNA

<213> Homo sapiens

<400> 2018

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tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac  
gtgggggagt 120

tccggggcgt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcttgaggga gaagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgagtcc  
267

<210> 2019

<211> 261

<212> DNA

<213> Homo sapiens

<400> 2019

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gggagagttc 120

cgggcggtga cggagctggg gcggcctgct gcggagtact ggaacagcca  
gaaggacatc 180

ctggaggaga agcgggcagt gccggacagg gtatgcagac acaactacga  
gctggacgag 240

gccgtgaccc tgcagcgccg a  
261

<210> 2020

<211> 267

<212> DNA

<213> Homo sapiens

<400> 2020

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gtgggggagat 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcttggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgagtcc  
267

<210> 2021

<211> 267

<212> DNA

<213> Homo sapiens

<400> 2021

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gtgggggagat 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcttggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

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267

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<213> Homo sapiens

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gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg acgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

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264

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gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gttccggaca ggatgtgcag acacaactac  
gagctgggcg 240

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263

<210> 2024  
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tggagagata catctacaac cgggaagagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcttgaggga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

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264

<210> 2025  
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tggagagata catctacaac cgggaggagt ttgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcttgaggga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2026  
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<212> DNA  
<213> Homo sapiens

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tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

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264

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gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca gtgccggaca gggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgagtcc  
267



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<212> DNA  
<213> Homo sapiens

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gtgggggagt 120

tccggggcgtg gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcttgaggga gaagcgggca gtgccggaca gggatgtcag acacaactac  
gagctggacg 240

aggccgtgac cctacagcgc cgag  
264

<210> 2029  
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cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgcgcgctt cgacagcgac  
gtgggggagt 120

tccggggcgtg gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcttgaggga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggag 240

ggcccatgac cctgcagcgc cgagtcc  
267

<210> 2030  
<211> 267

<212> DNA  
<213> Homo sapiens

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cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgagtcc  
267

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<212> DNA  
<213> Homo sapiens

<400> 2031  
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cagcgcttcc 60

tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2032  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2032  
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cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
tggtggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcag  
257

<210> 2033  
<211> 249  
<212> DNA  
<213> Homo sapiens

<400> 2033  
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cctggagaga 60

tacatctaca accgggagga gttcgtgcgc ttcgacagcg acgtggggga  
gttcggggcg 120

gtgacggagc tggggcgggc tgatgaggag tactggaaca gccagaagga  
catcctggag 180

gaggagcggg cagtgccgga cagggtatgc agacacaact acgagctgga  
cgaggccgtg 240

accctgcag  
249

<210> 2034  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2034

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cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggaca 180

tcttgaggga ggagcgggca gtgccggaca gggtatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2035

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2035

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tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcttgaggga ggagcgggca gtgccggaca gggtatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2036

<211> 249

<212> DNA

<213> Homo sapiens

<400> 2036

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tacatctaca accggcagga gtacgcgcgc ttcgacagcg acgtgggaga  
gttccgggag 120

gtgacggagc tggggcgggc tgctgcggag tactggaaca gccagaagga  
cctcctggag 180

gagaggcggg cagtgccgga caggatgtgc agacacaact acgagctgga  
cgaggccgtg 240

accctgcag  
249

<210> 2037

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2037

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tggagagata catctacaac aggcaggagt acgcgcgctt cgacagcgac  
gtgggagagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggacc 180

tcctggagga gaggggggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcag  
257

<210> 2038

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2038

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tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcttggagga ggagcgggca gtgccggaca ggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcag  
257

<210> 2039

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2039

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tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcttggagga gaagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcag  
257

<210> 2040

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2040

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tggagagata catctacaac cggcaggagt acgcgcgctt cgacagcgac  
gtgggagagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggacc 180

tcctggagga gaggcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggtcg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2041

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2041

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tgagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2042

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2042

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tgagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2043

<211> 249

<212> DNA

<213> Homo sapiens

<400> 2043

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tacatctaca accgggagga gttcgtgcgc ttcgacagcg acgtggggga  
gttccgggcg 120

gtgacggagc tggggcggcc tgatgaggag tactggaaca gccagaagga  
catcctggag 180

gagaagcggg cagtgccgga caggatgtgc agacacaact acgagctggt  
cgggcccatg 240

accctgcag  
249

<210> 2044

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2044

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tgagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc  
cagaaggaca 180



tcctggagga ggagcgggca gtgccggaca ggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

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<212> DNA  
<213> Homo sapiens

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tgagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2046  
<211> 263  
<212> DNA  
<213> Homo sapiens

<400> 2046  
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cagcgcttcc 60

tgagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tctctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgt cga  
263

<210> 2047

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2047

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tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac  
gtgggggaggt 120

tccgggcggt gacggagctg gggcggcctg aggcgagta ctggaacagc  
cagaaggaca 180

tctctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2048

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2048

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cagcgcttcc 60

tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac  
gtgggggaggt 120

tccgggcggt gacggagctg gggcggcctg aggcgagta ctggaacagc  
cagaaggaca 180

tctctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2049  
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<212> DNA  
<213> Homo sapiens

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cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggag 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2050  
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<212> DNA  
<213> Homo sapiens

<400> 2050  
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cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggag 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2051  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2051  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggacc 180

tcttgaggga gaagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2052  
<211> 256  
<212> DNA  
<213> Homo sapiens

<400> 2052  
gtgtaccagt tacggcagga atgctacgcg tttaatggga cacagcgctt  
cctggagaga 60

tacatctaca accgggagga gtacgcgcgc ttcgacagcg acgtgggaga  
gttcggggcg 120

gtgacggagc tggggcggcc tgctgcggag tactggaaca gccagaagga  
catcctggag 180

gagaagcggg cagtgccgga cagagtatgc agacacaact acgagctgga  
cgaggccgtg 240

accctgcagc gccgag  
256

<210> 2053  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 2053  
gtgtaccagt tacggcagga atgctacgcg tttaatggga cacagcgctt  
cctggagaga 60

tacatctaca accgggagga gtacgcgcgc ttcgacagcg acgtggggga  
gttcgggcg 120

gtgacggagc tggggcggcc tgctgcggag tactggaaca gccagaagga  
catcctggag 180

gagaagcggg cagtgccgga cagggtatgc agacacaact acgagctgga  
cgaggccgtg 240

accctgcagc gccga  
255

<210> 2054  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2054  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2055  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2055  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgcgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggacc 180

tcttgaggga gaagcgggca gtgccggaca ggtatgcag acacaactac  
gagctggtcg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2056  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2056  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcttgaggga ggagcgggca gtgccggaca ggtatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2057  
<211> 257

<212> DNA  
<213> Homo sapiens

<400> 2057  
agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60  
  
tgagagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120  
  
tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc  
cagaaggaca 180  
  
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240  
  
aggccgtgac cctgcag  
257

<210> 2058  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2058  
agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60  
  
tgagagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120  
  
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggacc 180  
  
tcctggagga gaagcgggca ttgccggaca ggatgtgcag acacaactac  
gagctggacg 240  
  
aggccgtgac cctgcagcgc cgag  
264

<210> 2059  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2059  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggtgta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2060  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2060  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgcgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcag  
257

<210> 2061  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2061



agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggacc 180

tcttgaggga gaagcgggca ttgccggaca ggtatgcag acacaactac  
gagctggtcg 240

ggcccatgac cctgcag  
257

<210> 2062  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2062  
agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggaca 180

tcttgaggga gaagcgggca gtgccggaca ggtatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcag  
257

<210> 2063  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2063  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2064

<211> 256

<212> DNA

<213> Homo sapiens

<400> 2064

gtgtaccagt tacggcagga atgctacgcg tttaatggga cacagcgctt  
cctggagaga 60

tacatctaca accgggagga gttcgtgcgc ttcgacagcg acgtggggga  
gttcggggcg 120

gtgacggagc tggggcgggc tgatgaggag tactggaaca gccagaagga  
catcctggag 180

gaggagcggg cagtgccgga cagggtatgc agacacaact acgagctgga  
cgaggccgtg 240

accctgcagc gccgag  
256

<210> 2065

<211> 249

<212> DNA

<213> Homo sapiens

<400> 2065

cttttccagg gacggcagga atgctaccgc tttaatggga cacagcgctt  
cctggagaga 60

tacatctaca accggggagga gctcgtgcgc ttcgacagcg acgtggggga  
gttccgggcg 120

gtgacggagc tggggcggcc tgaggcggag tactggaaca gccagaagga  
catcctggag 180

gagaagcggg cagtgccgga caggatgtgc agacacaact acgagctgga  
cgaggccgtg 240

accctgcag  
249

<210> 2066  
<211> 263  
<212> DNA  
<213> Homo sapiens

<400> 2066  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cga  
263

<210> 2067  
<211> 263  
<212> DNA  
<213> Homo sapiens

<400> 2067  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac  
gtgggggagt 120

tccggggcggg gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tctctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggtcg 240

ggcccatgac cctgcagcgc cga  
263

<210> 2068

<211> 261

<212> DNA

<213> Homo sapiens

<400> 2068

aattaccttt tccaggggacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttctcg 60

gagagataca tctacaaccg ggaggagtgc gtgcgccttcg acagcgacgt  
gggggagtgc 120

ggggcgggtga cggagctggg gcggcctgat gaggagtact ggaacagcca  
gaaggacttc 180

ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga  
gctgggcggg 240

cccatgaccc tgcagcgccg a  
261

<210> 2069

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2069

agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac  
gtgggggagc 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcctggagga ggagcgggca gtgccggaca gggatatgag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2070

<211> 249

<212> DNA

<213> Homo sapiens

<400> 2070

gtgcaccagt tacggcagga atgctacgag tttaatggga cacagcgctt  
cctggagaga 60

tacatctaca accgggagga gttcgtgcgc ttcgacagcg acgtggggga  
gttccgggcg 120

gtgacggagc tggggcggcc tgatgaggag tactggaaca gccagaagga  
cctcctggag 180

gagaagcggg cagtgccgga cagggtatgc agacacaact acgagctgga  
cgaggccgtg 240

accctgcag  
249

<210> 2071

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2071

agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tgagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2072  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2072  
agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tgagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2073  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 2073  
aattaccttt tccagggacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttcctg 60

gagagatata tctacaaccg ggaggagctc gtgcgcttcg acagcgacgt  
gggggagtgc 120

cgggcggtga cggagctggg gcggcctgat gaggagtact ggaacagcca  
gaaggacatc 180

ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga  
gctgggcggg 240

cccatgaccc tgca  
255

<210> 2074  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 2074  
aattaccttt tccagggacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttcctg 60

gagagatata tctacaaccg ggaggagtac gcgcgcttcg acagcgacgt  
gggggagttc 120

cgggcgggtga cggagctggg gcggcctgat gaggagtact ggaacagcca  
gaaggacatc 180

ctggaggaga agcgggcagt gccggacagg atgtgcagac acaactacga  
gctgggcggg 240

cccatgaccc tgca  
255

<210> 2075  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 2075  
aattacgtgt accagggacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttcctg 60

gagagatata tctacaaccg ggaggagttc gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcgggtga cggagctggg gcggcctgat gaggactact ggaacagcca  
gaaggacctc 180

ctggaggaga agcgggcagt gccggacagg gtatgcagac acaactacga  
gctggacgag 240

gccgtgaccc tgcag  
255

<210> 2076  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2076  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tgagagata catctacaac cgggaggagt tcgctgcgtt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggtatgcag acacaactac  
gagctggcg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2077  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2077  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tgagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca gtgccggaca ggtatgcag acacaactac  
gagctggacg 240



aggccgtgac cctgcag  
257

<210> 2078  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2078  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcttgaggga gaagcgggca gtgccggaca ggtatgcag acacaactac  
gagctggtcg 240

ggcccatgac cctgcag  
257

<210> 2079  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2079  
agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc  
cagaaggaca 180

tcttgaggga ggagcgggca gtgccggaca ggtatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcag  
257

<210> 2080  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2080  
agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60  
  
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120  
  
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180  
  
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240  
  
aggccgtgac cctgcag  
257

<210> 2081  
<211> 249  
<212> DNA  
<213> Homo sapiens

<400> 2081  
gtgtaccagt tacggcagga atgctacgcg tttaatggga cacagcgctt  
cctggagaga 60  
  
tacatctaca accgggagga gttcgcgcgc ttcgacagcg acgtggggga  
gttcggggcg 120  
  
gtgacggagc tggggcggcc tgctgcggag tactggaaca gccagaagga  
cctcctggag 180  
  
gagaagcggg cagtgccgga cagggtatgc agacacaact acgagctgga  
cgaggccgtg 240  
  
accctgcag  
249

<210> 2082  
<211> 238  
<212> DNA  
<213> Homo sapiens

<400> 2082  
cttttccagg gacggcagga atgctacgcg tttaatggga cacagcgctt  
cctggagaga 60  
  
tacatctaca accgggagga gttcgtgcgc ttcgacagcg acgtggggga  
gttcgggagc 120  
  
gtgacggagc tggggcgggc tgatgaggac tactggaaca gccagaagga  
cctcctggag 180  
  
gagaagcggg cagtgccgga cagggtatgc agacacaact acgagctgga  
cgaggccg 238

<210> 2083  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 2083  
aattacgtgc accagttacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttcctg 60  
  
gagagatata tctacaaccg ggaggagctc gtgcgcttcg acagcgacgt  
gggggagttc 120  
  
cgggcggtga cggagctggg gcggcctgct gcggagtact ggaacagcca  
gaaggacatc 180  
  
ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga  
gctggacgag 240  
  
gccgtgaccc tgcag  
255

<210> 2084  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2084  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60  
  
tgagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120  
  
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggacc 180  
  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240  
  
ggcccatgac cctgcag  
257

<210> 2085  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2085  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60  
  
tgagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120  
  
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180  
  
acctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240  
  
ggcccatgac cctgcag  
257

<210> 2086  
<211> 260  
<212> DNA  
<213> Homo sapiens

<400> 2086

agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tctgtagga gaagcgggca gtgccggaca gggatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc  
260

<210> 2087  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2087  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcttgaggga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggtcg 240

ggcccatgac cctgcag  
257

<210> 2088  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 2088  
aattaccttt tccagggacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttcctg 60

gagagataca tctacaaccg ggaggagctc gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctgct gcggagtact ggaacagcca  
gaaggacatc 180

ctggaggaga agcgggcagt gccggacagg atgtgcagac acaactacga  
gctggacgag 240

gccgtgaccc tgcag  
255

<210> 2089

<211> 255

<212> DNA

<213> Homo sapiens

<400> 2089

aattaagtgt accagttacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttcctg 60

gagagataca tctacaaccg ggaggagttc gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctgat gaggactact ggaacagcca  
gaaggacctc 180

ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga  
gctggacgag 240

gccgtgaccc tgcag  
255

<210> 2090

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2090

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gtgggggagt 120

tccggggcgt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

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<210> 2091

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2091

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gtgggggagt 120

tccggggcgt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcttgaggga gaagcgggca gtgccggaca ggatgtcag acacaactac  
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<213> Homo sapiens

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gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac  
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<210> 2093

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<213> Homo sapiens

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gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

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gagctggacg 240

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<210> 2094

<211> 251

<212> DNA

<213> Homo sapiens

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gtgggggagt 120



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cagaaggacc 180

tcctggagga gaggcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac c  
251

<210> 2095

<211> 255

<212> DNA

<213> Homo sapiens

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gggggagttc 120

cgggcgggtga cggagctggg gcggcctgat gaggactact ggaacagcca  
gaaggacctc 180

ctggaggaga agcgggcagt gccggacagg gtatgcagac acaactacga  
gctggacgag 240

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<210> 2096

<211> 255

<212> DNA

<213> Homo sapiens

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gggggagttc 120

cgggcgggtga cggagctggg gcggcctgct gcggagtact ggaacagcca  
gaaggacatc 180

ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga  
gctgggcggg 240

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gggggagttc 120

ggggcggtga cggagctggg gcggcctgct gcggagtact ggaacagcca  
gaaggacctc 180

ctggaggaga agcgggcagt gccggacagg atgtgcagac acaactacga  
gctgggcggg 240

cccatgaccc tgcag  
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gggggagttc 120

ggggcggtga cggagctggg gcggcctgat gaggagtact ggaacagcca  
gaaggacctc 180

ctggaggaga agcgggcagt gccggacagg gtatgcagac acaactacga  
gctgggcggg 240

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gttccgggag 120

gtgacggagc tggggcgagg tgctgcggag tactggaaca gccagaagga  
cctcctggag 180

gagaggcggg cagtgccgga caggatgtgc agacacaact acgagctggg  
cgggcccatg 240

accctgcag  
249

<210> 2100  
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<212> DNA  
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gttccgggag 120

gtgacggagc tggggcgagg tgatgaggag tactggaaca gccagaagga  
catcctggag 180

gagaagcggg cagtgccgga cagggtatgc agacacaact acgagctggg  
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accctgcag

249

<210> 2101

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2101

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gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca gtgccggaca gggatgtgcag acacaactac  
gagctggacg 240

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257

<210> 2102

<211> 264

<212> DNA

<213> Homo sapiens

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gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggac 240

ggcccatgac cctgcagcgc cgag  
264

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gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcttgaggga gaagcgggca gtgctggaca gggtatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2104  
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gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcttgaggga gaagcgggca gtgccggaca gggtatgcag acacaactac  
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264

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gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

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251

<210> 2106  
<211> 264  
<212> DNA  
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tggagagata catctacaac cgggaggagt tcgcgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2107  
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<212> DNA  
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<400> 2107  
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gtgggggagt 120  
  
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cagaaggaca 180  
  
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gagctgggag 240  
  
ggcccatgac cctgcagcac cgag  
264

<210> 2108  
<211> 264  
<212> DNA  
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gtgggggagt 120  
  
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cagaaggact 180  
  
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gagctgggag 240  
  
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264

<210> 2109  
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<212> DNA  
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gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg aggaggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggtatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cga  
263

<210> 2110  
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tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcac cgag  
264

<210> 2111  
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<212> DNA  
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<400> 2111  
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tgggggagtt 120

ccgggcggtg acggagctgg ggcggcctga tgaggactac tggaacagcc  
agaaggacat 180

cctggaggag gagcgggcag tgccggacag gatgtgcaga cacaactacg  
agctgggcgg 240

gcccatagacc ctgcagcgc ga  
262

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gtgggggagtt 120

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cagaaggacc 180

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gagctggacg 240

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264

<210> 2113  
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<400> 2113

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gtgggggagt 120

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cagaaggaca 180

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gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2114  
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gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

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gagctggacg 240

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264

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gtgggggagt 120

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cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

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<213> Homo sapiens

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gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2117

<211> 264

<212> DNA

<213> Homo sapiens

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gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcttggagga gaagcgggca gtgccggaca gggatgcag acacaactac  
gagctggacg 240

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<210> 2118

<211> 264

<212> DNA

<213> Homo sapiens

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gtgggggagt 120

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cagaaggaca 180

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gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

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<212> DNA

<213> Homo sapiens

<400> 2119

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gtgggggagt 120

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cagaagcaca 180

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gagctgggcg 240

ggcccatgac cctgcagcgc cgag  
264

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<210> 2121  
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23

<210> 2122  
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<210> 2123  
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<210> 2124  
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22

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<400> 2125  
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18

<210> 2126  
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21

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21

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<210> 2133  
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20

<210> 2137  
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<400> 2137  
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21

<210> 2138  
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<212> DNA  
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<400> 2138  
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<210> 2139  
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17

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<210> 2142  
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20

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<210> 2153  
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tgtttctgag 480

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gactgtggtc 660

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<211> 768

<212> DNA

<213> Homo sapiens

<400> 2421

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catcatgatt 300

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gttttccaag 360

tctcccgtga cactgggtca gcccaacacc ctcatctgtc ttgtggacaa  
catctttcct 420

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tgtttctgag 480

accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct  
caccttcttc 540

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ccagcctctt 600

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gactgtggtc 660

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<211> 768

<212> DNA

<213> Homo sapiens

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gttttccaag 360

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catctttcct 420

cctgtgtgta acatcacatg gctgagcaat gggcagtcag tcacagaagg  
tgtttctgag 480

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<210> 2423

<211> 613

<212> DNA

<213> Homo sapiens

<400> 2423

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catcatgatt 300

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gttttccaag 360

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cctgtggtca acatcacctg gctgagcaat gggcagtcag tcacagaagg  
tgtttctgag 480

accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct  
caccttctc 540

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613

<210> 2424

<211> 750

<212> DNA

<213> Homo sapiens

<400> 2424

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catcatgatt 300

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gttttccaag 360

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catctttcct 420

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tgtttctgag 480

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<210> 2425

<211> 249

<212> DNA

<213> Homo sapiens

<400> 2425

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cctggcggtg gcctgagttc agcaaatttg gaggttttga cccgcagggt  
gcactgagaa 180

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249

<210> 2426

<211> 765

<212> DNA

<213> Homo sapiens

<400> 2426

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cgctccaact ctaccgtgc taccaatgag gttcctgagg tcacagtgtt  
ttccaagtct 360

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gcctcttctg 600

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tgtggtctgt 660

gccttggggt tgtctgtggg cctcgtgggc attgtggtgg ggaccgtctt  
gatcatccga 720

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765

<210> 2427

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2427

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cttgtaccag 120

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gttttccaag 360

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cctgtggtca acatcacctg gctgagcaat gggcactcag tcacagaagg  
tgtttctgag 480

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caccttcttc 540

ccttctgctg atgagattta tgactgcaag gtggagcact ggggcctgga  
tgagcctctt 600

ctgaaacact gggagcctga gattccaaca cctatgtcag agctcacaga  
gactgtggtc 660

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768

<210> 2428

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2428

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gttctatgtg 180

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catcgtgatt 300

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gttttccaag 360

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cctgtggtca acatcacctg gctgagcaat gggcactcag tcacagaagg  
tgttcttgag 480

accagcttcc tctccaagag tgatattcc ttcttcaaga tcagttacct  
caccttctct 540

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tgagcctctt 600

ctgaaacact gggagcctga gattccaaca cctatgtcag agctcacaga  
gactgtggtc 660



tgcgccctgg ggttgtctgt gggcctcgtg ggcattgtgg tggggaccgt  
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768

<210> 2429

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2429

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catcgtgatt 300

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gttttccaag 360

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cctgtggtca acatcacctg gctgagcaat gggcactcag tcacagaagg  
tgtttctgag 480

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caccttctct 540

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gactgtggtc 660

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768

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<211> 765

<212> DNA

<213> Homo sapiens

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ttctgagacc 480

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gccctgggat tgtctgtggg cctcgtgggc attgtggtgg gcactgtctt  
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765

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<211> 528

<212> DNA

<213> Homo sapiens

<400> 2431

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aaggagactg 120

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<210> 2432

<211> 765

<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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258

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gcctgttctc 120

agacaattta gatttgaccg gcaatttgca ctgacaaaaca tcgctgtcct  
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gccctgggat tgtctgtggg cctcgtgggc atttgtgtgg gcactgtctt  
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765

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<211> 246

<212> DNA

<213> Homo sapiens

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246

<210> 2437

<211> 765

<212> DNA

<213> Homo sapiens

<400> 2437

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ttccaagtct 360

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765

<210> 2438

<211> 765

<212> DNA

<213> Homo sapiens

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ttccaagtct 360

ccggtgacgc tgggtcagcc caacaccctc atctgtcttg tggacaacat  
cttctctcct 420

gtggtcaaca tcacatggct gagcaatggg cactcagtca cagaagggtg  
ttctgagacc 480

agcttcctct ccaagagtga tcattccttc ttcaagatca gttacctcac  
cttcctccct 540



tctgctgatg agatttatga ctgcaaggtg gagcactggg gcctggacga  
gcctcttctg 600

aaacactggg agcctgagat tccagcccct atgtcagagc tcacagagac  
tgtggtctgc 660

gccctgggat tgtctgtggg cctcgtgggc attgtggtgg gcactgtctt  
catcatccga 720

ggcctgcgtt cagttggtgc ttccagacac caagggccct tgtga  
765

<210> 2439

<211> 227

<212> DNA

<213> Homo sapiens

<400> 2439

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atttgatgga 60

gacgagcagt tctacgtgga cctggggagg aaggagactg tctggtgttt  
gcctgttctc 120

agacaattta gatttgaccc gcaatttgca ctgacaaaaca tcgccgtgac  
aaaacacaac 180

ttgaacatcc tgattaaacg ctccaactct accgctgcta ccaatga  
227

<210> 2440

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2440

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gacacatcta 60

taaccgagag gagtacgtgc gcttcgacag cgacgtgggg gtgtaccggg  
cagtgcgacc 120

gcagggggcg cctgttgccg agtactggaa cagccagaag gaagtccctg  
agggggcccg 180

ggcgtcgtg gacagggtg gcagacaca ctacgaggg gcgtaccgcg  
ggatcctgca 240

gaggagagt gagccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg atctgctcgg tgacagattt ctatccaagc cagatcaaag  
tccggtggtt 360

tcggaatgat caggaggaga cagccggcgt tgtgtccacc cccctcatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
atgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg  
529

<210> 2441

<211> 244

<212> DNA

<213> Homo sapiens

<400> 2441

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gacacatcta 60

taaccgagag gagtacgtgc gcttcgacag cgacgtgggg gtgtaccggg  
cggtgacgcc 120

gcaggggctg cctgttgccg agtactggaa cagccagaag gaagtccctg  
agggggcccg 180

ggcgtcgtg gacagagtgt gcagacaca ctacgaggg gcgtaccgcg  
ggatcctgca 240

gagg

244

<210> 2442

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2442  
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gacacatcta 60

taaccgagag gagtacgtgc gcttcgacag cgacgtgggg gtgtaccggg  
cggtgacgcc 120

gcagggggcgg cctagcgccg agtactggaa cagccagaag gaagtccctgg  
agggggcccg 180

ggcgtcgttg gacagagtgt gcagacacaa ctacgaggtg gcgtaccgcg  
ggatcctgca 240

gaggagagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgtgt atctgtctcg tgacagattt ctatccaagc cacatcaaag  
tccggtggtt 360

tcggaatgat caggaggaga cagccggcgt tgtgtccacc cccctcatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
atgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg  
529

<210> 2443

<211> 245

<212> DNA

<213> Homo sapiens

<400> 2443  
gggcctgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca  
gacacatcta 60

taaccgagag gagtacgtgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gcagggggcgg cctagcgccg agtactggaa cagccagaag gaagtccctgg  
agggggcccg 180

ggcgtcggtg gacagagtgt gcagacacaa ctacgagggtg gcgtaccgcg  
ggatcctgca 240

gagga  
245

<210> 2444  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2444  
gggcctgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca  
gacacatcta 60

taaccgagag gagtacgtgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gcaggggcgg cctgacgccg agtactggaa cagccagaag gaagtctcgg  
agggggcccg 180

ggcgtcggtg gacagagtgt gcagacacaa ctacgagggtg gcgtaccgcg  
ggatcctgca 240

gaggagagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg atctgctcgg tgacagattt ctatccaagc cagatcaaag  
tccggtggtt 360

tcggaatgat caggaggaga cagccggcgt tgtgtccacc cccctcatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
atgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg  
529

<210> 2445  
<211> 148  
<212> DNA  
<213> Homo sapiens

<400> 2445  
gacggagcgc gtgcggggtg tgaccagaca catctataac cgagaggagt  
acgtgcgctt 60

cgacagcgac gtgggggtgt atcgggcggt gacgccgcag gggcggcctg  
atgccgagta 120

ctggaacagc cagaaggaag tcctggag  
148

<210> 2446  
<211> 212  
<212> DNA  
<213> Homo sapiens

<400> 2446  
gggcctgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca  
gatacatcta 60

taaccgagaa gagtacgtgc gcttcgacag cgacgtgggg gtgtaccggg  
cggtgacgcc 120

gcaggggagg cctagcgccg agtactggaa cagccagaag gacatcctgg  
aggaggaccg 180

ggcgtcgggtg gacaggggtgt gcagacacaa ct  
212

<210> 2447  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2447  
gggcattgtgc tacttcacca acgggacaga gcgcgtgcgt cttgtgagca  
gaagcatcta 60

taaccgagaa gagatcgtgc gcttcgacag cgacgtgggg gagttccggg  
cggtgacgct 120

gctggggcgt cctgccgccg agtactggaa cagccagaag gacatcctgg  
agaggaaacg 180

ggcggcggtg gacaggggtg gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcgg tgacagattt ctatccagcc cagatcaaag  
tccggtggtt 360

tcggaatgac caggaggaga cagctggcgt tgtgtccacc ccccttatta  
ggaatggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtg  
529

<210> 2448

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2448

gggcatgtgc tacttcacca acgggacaga gcgcgtgcgt cttgtgagca  
gaagcatcta 60

taaccgagaa gagatcgtgc gcttcgacag cgacgtgggg gagttccggg  
cggtgacgct 120

gctggggctg cctgcccgg agtactggaa cagccagaag gacatcctgg  
agaggaaacg 180

ggcggcggtg gacaggggtg gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcgg tgacagattt ctatccagcc cagatcaaag  
tccggtggtt 360

tcggaatggc caggaggaga cagctggcgt tgtgtccacc ccccttatta  
ggaatggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg  
529

<210> 2449

<211> 449

<212> DNA

<213> Homo sapiens

<400> 2449

gggcatgtgc tacttcacca acgggacaga gcgcgtgcgt cttgtgagca  
gaagcatcta 60

taaccgagaa gagatcgtgc gcttcgacag cgacgtgggg gagttccggg  
cggtgacgct 120

gctggggctg cctgacgccg agtactggaa cagccagaag gacatcctgg  
agaggaaacg 180

ggcggcggtg gacaggggtg gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgaccc catccaggac agaggccctc aaccaccaca acctgctggt  
ctgctcggtg 300

acagatttct atccagccca gatcaaagtc cggtggtttc ggaatggcca  
ggaggagaca 360

gctggcggtg tgtccacccc cettattagg aatggtgact ggaccttcca  
gatcctggtg 420

atgctggaaa tgactcccca gcgtggaga  
449

<210> 2450

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2450

ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca  
gatacatcta 60

taaccgagag gagtacgcac gcttcgacag cgacgtggag gtgtaccggg  
cggtgacgcc 120

gctggggccg cctgacgccg agtactggaa cagccagaag gaagtctctg  
agaggaccgg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag  
tccggtggtt 360

tcggaatgac caggaggaga caaccggcgt tgtgtccacc ccccttatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagaa ccccatcacc gtggagtg  
529

<210> 2451

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2451

ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtggag gtgtaccggg  
cggtgacgcc 120

gctggggccg cctgacgccg agtactggaa cagccagaag gaagtctctg  
agaggaccgg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgag  
248



<210> 2452  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2452  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60  
  
taaccgagag gagtacgcac gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120  
  
gctggggccg cctgccgccg agtactggaa cagccagaag gaagtccctg  
agaggaccgc 180  
  
ggcggagtg gacacgggtg gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240  
  
gcggcgagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300  
  
caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag  
tccggtgggt 360  
  
tcggaatgac caggaggaga caactggcgt tgtgtccacc ccccttatta  
ggaacgggtga 420  
  
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
acgtctacac 480  
  
ctgccacgtg gagcacccca gcctccagaa ccccatcatc gtggagtg  
529

<210> 2453  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2453  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcac gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gctggggccg cctgacgccg agtactggaa cagccagaag gaagtccctg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaa  
tccggtggtt 360

tcggaatgac caggaggaga caactggcgt tgtgtccacc ccccttatta  
ggaacgttga 420

ctggaccttc cagatccctg tgatgctgga aatgactccc cagcgtggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagaa ccccatcatc gtggagtg  
529

<210> 2454

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2454

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gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gctggggccg cctgacgccg agtactggaa cagccagaag gaagtccctg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgag  
248

<210> 2455  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2455  
ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca  
gatacatcta 60

taaccgagag gagtacgcac gcttcgacag cgacgtggag gtgtaccggg  
cggtgacgcc 120

gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcttg  
agaggaccgc 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca  
cgaccttgca 240

gcggcgagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgtgt gtctgtctag tgacagattt ctatccagcc cagatcaaag  
tccggtggtt 360

tcggaatgac caggaggaga caaccggcgt tgtgtccacc ccccttatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgtctga aatgactccc cagcatggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagaa ccccatcacc gtggagtg  
529

<210> 2456  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2456  
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gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gctggggccg cctgcccgcg agtactggaa cagccagaag gaagtctctg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag  
tccggtggtt 360

tcggaatgac caggaggaga caactggcgt tgtgtccacc ccccttatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagaa ccccatcatc gtggagtg  
529

<210> 2457

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2457

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtagacgcc 120

gctggggccg cctgcccgcg agtactggaa cagccagaag gaagtctctg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgag  
248

<210> 2458

<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 2458  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcac gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gctggggccg cctgacgccg agtactggaa tagccagaag gacatcctgg  
aggaggaccg 180

ggcgctcggtg gacaccggtat gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgag  
248

<210> 2459  
<211> 247  
<212> DNA  
<213> Homo sapiens

<400> 2459  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcac gcttcgacag cgacgtgggg gtgtatcggg  
tggtgacgcc 120

gctggggccg cctgccgccg agtactggaa cagccagaag gaagtccctgg  
agaggaccgc 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgga  
247

<210> 2460  
<211> 248  
<212> DNA

<213> Homo sapiens

<400> 2460

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcac gcttcgacag cgacgtgggg gtgtatcggg  
cgttgacgcc 120

gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcttgg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgcgag  
248

<210> 2461

<211> 526

<212> DNA

<213> Homo sapiens

<400> 2461

ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca  
gatacatcta 60

taaccgagag gagtacgcac gcttcgacag cgacgtggag gtgtaccggg  
cgttgacgcc 120

gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcttgg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgcagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgtgt gtctgtctag tgacagattt ctatccagcc cagatcaaag  
tccgtgtgtt 360

tcggaatgac caggaggaga caaccggcgt tgtgtccacc ccccttatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatgccg  
tctacacctg 480

ccacgtggag caccacagcc tccagaaccc catcacctg gagtgg  
526

<210> 2462

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2462

ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca  
gatacatcta 60

taaccgagag gagtacgcac gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gctggggccg cctgacgccg agtactggaa cagccagaag gaagtctcgg  
agaggaccgc 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccga  
cgaccttgca 240

gcggcgagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag  
tccggtggtt 360

tcggaatgac caggaggaga caaccggcgt tgtgtccacc ccccttatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagaa ccccatcacc gtggagtgg  
529

<210> 2463

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2463  
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gatacatcta 60  
  
taaccgagag gagtacgcac gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120  
  
gctggggccg cctgacgccg agtactggaa cagccagaag gaagtccctgg  
agaggacccg 180  
  
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240  
  
gcggcggag  
248

<210> 2464  
<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 2464  
ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60  
  
taaccgagag gagtacgcac gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120  
  
gctggggccg cctgacgccg agtactggaa cagccagaag gaagtccctgg  
agaggacccg 180  
  
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240  
  
gcggcggag  
248

<210> 2465  
<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 2465



ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca  
gatacatcta 60

taaccgagag gactacgcac gcttcgacag cgacgtggag gtgtaccggg  
cggtgacgcc 120

gctggggccg cctgacgccg agtactggaa cagccagaag gaagacctgg  
agaggaccgc 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgcgag  
248

<210> 2466

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2466

gggcacgtgc tacttcacca acgggaccga gctcgtgcgg ggtgtgacca  
gatacatcta 60

taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gctggggcgg cttgacgccg agtactggaa tagccagaag gacatcctgg  
aggaggaccg 180

ggcgtcggtg gacaccgat gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgcgag gagccacacg tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaa  
tccggtggtt 360

tcggaatgac caggaggaga caactggcgt tgtgtccacc ccccttatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagaa ccccatcatc gtggagtg  
529

<210> 2467

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2467

gggcatgtgc tacttcacca acgggaccga gcgcgtgcgg ggtgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gctggggcgg cttgacgccg agtactggaa tagccagaag gacatcctgg  
aggaggaccg 180

ggcgtcggtg gacaccgtat gcagacacaa ctaccagttg gagctccga  
cgaccttgca 240

gcggcgagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag  
tccggtggtt 360

tcggaatgac caggaggaga caactggcgt tgtgtccacc ccccttatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagaa ccccatcatc gtggagtg  
529

<210> 2468

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2468

ggccatgtgc tacttcacca atgggacgga gcgcgtgcgt tatgtgacca  
gatacatcta 60

taaccgagag gaggacgtgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gcagggggcg cctgacgccg agtactggaa cagccagaag gacatcctgg  
agaggaccg 180

agcggagtgt gacacggtgt gcagacacaa ctacgaggtg gcgttcgcg  
ggatcttgca 240

gaggagagt gagccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag  
tccggtggtt 360

tcggaatgac caggaggaga cagctggcgt tgtgtccacc ccccttatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag  
acgtctacac 480

ctgccacgtg gagcaccca gcctccagag ccccatcacc gtggagtgg  
529

<210> 2469

<211> 204

<212> DNA

<213> Homo sapiens

<400> 2469

gccatgtgct acttcaccaa cgggacggag cgcgtgcgtt atgtgaccag  
atacatctat 60

aaccgagagg aggacgtgcg cttcgacagc gacgtggggg tgtatcgggc  
ggtgaccccc 120

cagggggcgg ctgacgccga gtactggaac agccagaagg acatcctgga  
gaggaccga 180

gcggagtgtg acacggtgtg caga  
204

<210> 2470

<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2470  
ggccatgtgc tacttcacca atgggacgga gcgcgtgcgt tatgtgacca  
gatacatcta 60

taaccgagag gaggacgtgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gcagggggcg cctgacgccg agtactggaa cagccagaag gacatcctgg  
agaggacccg 180

agcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttcgcg  
ggatcttgca 240

gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag  
tccggtggtt 360

tcggaatgac caggaagaga cagctggcgt tgtgtccacc ccccttatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtg  
529

<210> 2471  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2471  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggacg cctgatgccg agtactggaa cagccagaag gaagtctctg  
aggggacccg 180

ggcggaggtg gacacgggtg gcagacacaa ctacgaggtg gcgttcgcg  
ggatcttgca 240

gaggagagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag  
tccggtggtt 360

tcggaatgat caggaggaga cagccggcgt tgtgtccacc ccccttatta  
ggaatggtga 420

ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
atgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtg  
529

<210> 2472

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2472

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gacacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggacg cctgatgccg agtactggaa cagccagaag gaagtctctg  
aggggacccg 180

ggcggaggtg gacacgggtg gcagacacaa ctacgaggtg gcgttcgcg  
ggatcttgca 240

gaggagagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag  
tccggtggtt 360

tcggaatgat caggaggaga cagccggcgt tgtgtccacc ccccttatta  
ggaatggtga 420

ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
atgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg  
529

<210> 2473

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2473

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gacacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccggg  
cggtgacgcc 120

gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtctgg  
agaggaccgg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagccgg  
ggatcctgca 240

gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag  
tccagtggtt 360

tcggaatgat caggaggaga cagccggcgt tgtgtccacc ccccttatta  
ggaatggtga 420

ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
atgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg  
529

<210> 2474

<211> 289

<212> DNA  
<213> Homo sapiens

<400> 2474  
gggcattgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gacacatcta 60  
  
taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120  
  
gcagggggcgc cctgttgccg agtactggaa cagccagaag gaagtctctg  
agaggaccgc 180  
  
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtaaccgc  
ggatcctgca 240  
  
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggcc  
289

<210> 2475  
<211> 289  
<212> DNA  
<213> Homo sapiens

<400> 2475  
gggcctgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gatacatcta 60  
  
taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120  
  
gcagggggcgc cctgttgccg agtactggaa cagccagaag gaagtctctg  
agaggaccgc 180  
  
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtaaccgc  
ggatcctgca 240  
  
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggcc  
289

<210> 2476  
<211> 173  
<212> DNA  
<213> Homo sapiens

<400> 2476

ggacggagcg cgtgcgtctt gtaaccagat acatctataa ccgagaggag  
tacgcgcgct 60

tcgacagcga cgtgggggtg taccgggcgg tgacgccga ggggcggcct  
gtcgccgagt 120

actggaacag ccagaaggaa gtcttgagga ggacccgggc ggagtggac acg  
173

<210> 2477

<211> 176

<212> DNA

<213> Homo sapiens

<400> 2477

ggacggagcg cgtgcgtctt gtaaccagat acatctataa ccgagaggag  
tacgcgcgct 60

tcgacagcga cgtgggggtg taccgggcgg tgacgccga ggggcggcct  
gttgccgagt 120

actggaacag ccagaaggaa gtcttgagga ggacccgggc ggcggtggac  
agggtg 176

<210> 2478

<211> 236

<212> DNA

<213> Homo sapiens

<400> 2478

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gacacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggcgg cctgatgccg agtactggaa cagccagaag gaagtcttg  
agaggaccgc 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagccgc  
ggatcc 236



<210> 2479  
<211> 236  
<212> DNA  
<213> Homo sapiens

<400> 2479  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gacacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggagg cctgttgccg agtactggaa cagccagaag gaagtccctgg  
aggggacccg 180

ggcggagttg gacacgggtgt gcagacacaa ctacgaggtg gcgttcgcg  
ggatct 236

<210> 2480  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2480  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccggg  
cggtgacgcc 120

gcaggggagg cctgttgccg agtactggaa cagccagaag gaagtccctgg  
agaggacccg 180

ggcggagttg gacacgggtgt gcagacacaa ctacgaggtg gggtagccgc  
ggatcctgca 240

gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag  
tccagtggtt 360

tcggaatgat caggaggaga cagccggcgt tgtgtccacc ccccttatta  
ggaatggtga 420

ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
atgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg  
529

<210> 2481

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2481

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggcgcg cctagcgccg agtactggaa cagccagaag gaagtcttgg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg  
ggatcttgca 240

gaggagag  
248

<210> 2482

<211> 244

<212> DNA

<213> Homo sapiens

<400> 2482

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggcgcg cctgatgccg agtactggaa cagccagaag gaagtcttgg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttcgcg  
ggatcttgca 240

gagg  
244

<210> 2483  
<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 2483  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggcgg cctgatgccg agtactggaa cagccagaag gaagtctcgg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttcgcg  
ggatcttgca 240

gaggagag  
248

<210> 2484  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2484  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccggg  
cggtgacgcc 120

gcaggggcgg cctgttgccg agtactggaa cagccagaag gaagtctcgg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtaaccgcg  
ggatcctgca 240

gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gcttgctcgg tgacagattt ctatccaggc cagatcaaag  
tccagtggtt 360

tcggaatgat caggaggaga cagccggcgt tgtgtccacc ccccttatta  
ggaatggtga 420

ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
atgtctacac 480

ctgccacgtg gagcacccea gcctccagag ccccatcacc gtggagtgg  
529

<210> 2485

<211> 234

<212> DNA

<213> Homo sapiens

<400> 2485

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggcgg cctgttgccg agtactggaa cagccagaag gaagtctctg  
aggggaccgg 180

ggcggagttg gacacgggtg gcagacacaa ctacgaggtg gcgttcgcg ggat  
234

<210> 2486

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2486

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gacacatcta 60

taaccgagag gagtacgcg gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggagg cctgatgccg agtactggaa cagccagaag gaagtccctg  
aggggacccg 180

ggcggaggtg gacacgggtg gcagacacaa ctacgaggtg gcgttcgcg  
ggatcttgca 240

gaggagag  
248

<210> 2487

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2487

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcg gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggagg cctgatgccg agtactggaa cagccagaag gaagtccctg  
agaggacccg 180

ggcggaggtg gacacgggtg gcagacacaa ctacgaggtg gggatccgcg  
ggatcctgca 240

gaggagag  
248

<210> 2488

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2488

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcg gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggcg cctgatgccg agaactggaa cagccagaag gaagtcctgg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg  
ggatcttgca 240

gaggagag  
248

<210> 2489

<211> 229

<212> DNA

<213> Homo sapiens

<400> 2489

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gacacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccggg  
cggtgacgcc 120

gcaggggcg cctgttgccg agtactggaa cagccagaag gaagtcctgg  
agggggcccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtaaccg  
229

<210> 2490

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2490

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccggg  
cggtgacgcc 120

gcaggggcg cctgttgccg agtactggaa cagccagaag gaagtcctgg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttcgcg  
ggatcttgca 240

gaggag  
246

<210> 2491  
<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 2491  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gctggggcgg cctgatgccg agtactggaa cagccagaag gaagtctcgg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttcgcg  
ggatcttgca 240

gaggagag  
248

<210> 2492  
<211> 229  
<212> DNA  
<213> Homo sapiens

<400> 2492  
gggcctgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggcgg cctgatgccg agtactggaa cagccagaag gaagtctcgg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttcgcg  
229

<210> 2493  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 2493  
atggtgtgtc tgaagctccc tggaggtcc tgcattgacag cgctgacagt  
gacactgatg 60  
  
gtgctgagct ccccaactggc ttggtctggg gacacccgac cacgtttctt  
gtggcagctt 120  
  
aagtttgaat gtcatttctt caatgggacg gagcgggtgc ggttgctgga  
aagatgcac 180  
  
tataaccaag aggagtccgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcggtgacg 240  
  
gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacctcct  
ggagcagagg 300  
  
cgggcccgcg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360  
  
cagcggcgag  
370

<210> 2494  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2494  
cacgtttctt gtggcagctt aagtttgaat gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggttgctgga aagatgcac tataaccaag aggaatccgt gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180



aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2495

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2495

ggggacaccc gaccacgttt cttgtggcag ctttaagtttg aatgtcattt  
cttcaatggg 60

acggagcggg tgcggttgct ggaaagatgc atctataacc aagaggagtc  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtag 180

tggaacagcc agaaggacct cctggagcag aggcggggccg cggtgagac  
ctattgcaga 240

cacaactacg gggctgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2496

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2496

cacgtttctt gtggcagctt aagtttgaat gtcatttctt caatgggacg  
gagcgggtgc 60

ggttgctgga aagatgcata tataaccaag aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc gccctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ttgcagacac  
aactacgggg 240

ctgtgg  
246

<210> 2497  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 2497  
atggtgtgtc tgaagctccc tggaggctcc tgcattgacag cgctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc ttgggctggg gacacccgac cacgtttctt  
gtggcagctt 120

aagtttgaat gtcattttctt caatgggacg ggcgggtgc ggttgctgga  
aagatgcac 180

tataaccaag aggagtccgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcggtgacg 240

gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacatcct  
ggaagacgag 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2498  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2498  
ggggacaccc gaccacgttt cttgtggcag ctttaagtttg aatgtcattt  
cttcaatggg 60

acggagcggg tgcggttgct ggaaagatgc atctataacc aagaggagtc  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180

tgaacagcc agaaggacct cctggagcag aggcgggccc cgggtggacaa  
ttactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2499

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2499

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aacagccaga 180

aggacctcct ggagcagagg cgggcccgcg tggacaccta ctgcagacac  
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270

<210> 2500

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2500

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aacagccaga 180

aggacctcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

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270

<210> 2501

<211> 270

<212> DNA

<213> Homo sapiens

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agcgacgtgg 120

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aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

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270

<210> 2502

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2502

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agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2503

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2503

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gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2504

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2504

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gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2505  
<211> 283  
<212> DNA  
<213> Homo sapiens

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cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctga  
tgccgagtag 180

tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggacaa  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2506  
<211> 265  
<212> DNA  
<213> Homo sapiens

<400> 2506  
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ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcg  
265

<210> 2507  
<211> 283  
<212> DNA  
<213> Homo sapiens

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acggagcggg tgcggttcct ggagagatac ttccataacc aggaggagaa  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtag 180

tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggaaa  
ttactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2508  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2508  
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acggagcggg tgcggttcct ggagagatac ttccataacc aggaggagaa  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtag 180

tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggaaa  
ttactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2509  
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<212> DNA  
<213> Homo sapiens

<400> 2509  
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cctggagaga 60

tacttccata accaggagga gaacgtgcgc ttcgacagcg acgtggggga  
gtaccgggcg 120

gtgacggagc tggggcggcc tgatgccgag tactggaaca gccagaagga  
cctcctggag 180

cagaagcggg gccgggtgga caactactgc agacacaact acggggttgt  
ggagagcttc 240

acagtgcagc ggcca  
255

<210> 2510  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2510  
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ggtagcttga cagatacttc cataaccagg aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270



<210> 2511  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2511  
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ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagtccg ggcggtgacg gagctggggc gccctgatgc cgagtactgg  
aacagccaga 180  
  
aggacctctt ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2512  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2512  
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agcgacgtgg 120  
  
gggagtccg ggcggtgacg gagctggggc gccctgatgc cgagtactgg  
aacagccaga 180  
  
aggacctctt ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacggtg cagcggcgag  
270

<210> 2513  
<211> 258

<212> DNA  
<213> Homo sapiens

<400> 2513  
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ggtgcggtac 60  
  
ctggacagat acttccataa ccaggaggag aacgtgcgct tcgacagcga  
cgtgggggag 120  
  
taccgggcgg tgacggagct ggggcgcct gatgccgagt actggaacag  
ccagaaggac 180  
  
ctcttgagc agaagcgggg ccgggtggac aactactgca gacacaacta  
cggggttggt 240  
  
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258

<210> 2514  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2514  
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cttcaatggg 60  
  
acggagcggg tgcggttcct ggacagatac ttccataacc aggaggagaa  
cgtgcgcttc 120  
  
gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgccgagtag 180  
  
tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggaaa  
ctactgcaga 240  
  
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283

<210> 2515  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2515  
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acggagcggg tgcggtacct ggacagatac ttccataacc aggaggagaa  
cgtgcgcttc 120

gacagcgcag tgggggagtt ccgggcggtg acggagctgg ggcgcctga  
tgaggagtac 180

tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggacaa  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2516

<211> 258

<212> DNA

<213> Homo sapiens

<400> 2516  
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gacagatact tccataaccg ggaggagaaac gtgcgcttcg acagcgcagt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctgat gccgagtact ggaacagcca  
gaaggacctc 180

ctggagcaga agcggggccg ggtggacaac tactgcagac acaactacgg  
ggttggtgag 240

agcttcacag tgcagcgg  
258

<210> 2517

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2517

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acggagcggg tgcggtacct ggacagatac ttccataacc aggaggagaa  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctgc  
tgcggagcac 180

tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggacaa  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2518

<211> 269

<212> DNA

<213> Homo sapiens

<400> 2518

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ggtacctgga cagatacttc cataaccagg aggagaacct gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaacta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcga  
269

<210> 2519

<211> 240

<212> DNA

<213> Homo sapiens

<400> 2519

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gacagatact tccataacca ggaggagaac gtgcgcttcg acagcgacgt  
gggggagtct 120

cgggcgggtga cggagctggg gcggcctagc gccgagtact ggaacagcca  
gaaggacctc 180

ctggagcaga agcggggccg ggtggacaac tactgcagac acaactacgg  
ggttggtgag 240

<210> 2520

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2520

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ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggctgatgc cgagtcctgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2521

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2521

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ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2522

<211> 269

<212> DNA

<213> Homo sapiens

<400> 2522

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gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgga  
269

<210> 2523

<211> 245

<212> DNA

<213> Homo sapiens

<400> 2523

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ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttctg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240

ttgtg  
245

<210> 2524  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2524  
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ggttctctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

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<212> DNA  
<213> Homo sapiens

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agcgacgtgc 120

gggagtccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2526

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2526

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agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2527

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2527

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ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240



ctgtggagag cttcacagtg cagcgg  
266

<210> 2528  
<211> 267  
<212> DNA  
<213> Homo sapiens

<400> 2528  
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gcgggtgcgg 60

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cgacgtgggg 120

gagttccggg cggtgacgga gctggggcgg cctgatgccg agtactggaa  
cagccagaag 180

gacctcctgg agcagaagcg gggccgggtg gacaactact gcagacacaa  
ctacgggggtt 240

gtggagagct tcacagtgca gcggcga  
267

<210> 2529  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 2529  
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cctggacaga tacttcgata accaggagga gaacgtgcgc ttcgacagcg  
acgtggggga 120

gttcggggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca  
gccagaagga 180

cctcctggag cagaagcggg gccgggtgga caactactgc agacacaact  
acggggttgt 240

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266

<210> 2530  
<211> 270  
<212> DNA  
<213> Homo sapiens

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gggagttccg ggcggtgacg gagctggggc gccctgatgc cgagtactgg  
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aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2531  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2531  
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agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc gccctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2532  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2532  
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agcgacgtgg 120  
  
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aactacgggg 240  
  
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270

<210> 2533  
<211> 370  
<212> DNA  
<213> Homo sapiens

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ggagcaggtt 120  
  
aaacatgagt gtcatttctt caacgggacg gagcgggtgc ggttcctgga  
cagatacttc 180  
  
tatcaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcggtgacg 240  
  
gagctggggc ggctgatgc cgagtactgg aacagccaga aggacctcct  
ggagcagaag 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2534  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2534  
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ggttctctga cagatacttc tatcaccaag aagagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2535  
<211> 370  
<212> DNA  
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<400> 2535  
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ggagcaggtt 120

aaacatgagt gtcatttctt caacgggacg gagcgggtgc ggttctctga  
cagatacttc 180

tatcaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcgggtgacg 240

gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacatcct  
ggaagacgag 300

cgggccgcgcg tggacaccta ctgcagacac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2536  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2536  
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cttcaacggg 60

acggagcggg tgcggttcct ggacagatac ttctatcacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180

tggaacagcc agaaggacct cctggagcag aggcggggccg aggtggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2537  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2537  
cacgtttctt ggagcagggt aaacatgagt gtcattttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtagct gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgagg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2538

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2538

atggtgtgtc tgaagttccc tggaggctcc tgcattggcag ctctgacagt  
gacactgatg 60

gtgctgagct cccactggc ttgtggctggg gacacccgac cacgtttctt  
ggagcaggtt 120

aaacatgagt gtcattttctt caacgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

tatcaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcggtgacg 240

gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacctcct  
ggagcagagg 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2539

<211> 282

<212> DNA

<213> Homo sapiens

<400> 2539

ggggacaccc gaccacgttt cttggagcag gttaaaccatg agtgtcattt  
cttcaacggg 60

acggagcggg tgcggttcct ggacagatac ttctatcacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tggggggagta ccgggcggtg acggagctgg ggcggcctag  
cgccgagtag 180

tggaacagcc agaaggacct cctggagcag aggcgggccc cggtggacac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc ga  
282

<210> 2540

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2540

cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcggttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggcccggg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2541

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2541

cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcgacgag  
270

<210> 2542

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2542

cacgttttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacggtg cagcggcgag  
270

<210> 2543

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2543

ggggacaccc gaccacgttt cttggagcag gttaaaccatg agtgtcattt  
cttcaacggg 60

acggagcggg tgcggttcct ggacagatac ttctatcacc aagaggagtc  
cgtgcgcttc 120



gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtag 180

tggaacagcc agaaggacct cctggagcag aggcgggccg aggtggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2544

<211> 282

<212> DNA

<213> Homo sapiens

<400> 2544

ggggacaccc gaccacgttt cttggagcag gttaaactg agtgtcattt  
cttcaacggg 60

acggagcggg tgccggttcct ggacagatac ttctatcacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtag 180

tggaacagcc agaaggacct cctggagcag aggcgggccg aggtggacac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc ga  
282

<210> 2545

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2545

cacgtttctt ggagcagggtt aaacatgagt gtcattttctt caacgggacg  
gagcgggtgc 60

ggttctctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaga cgggccgagg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcgg  
266

<210> 2546

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2546

tttcttgtag caggttaaac atgagtgtca tttcttcaac gggacggagc  
gggtgcggtt 60

cctggacaga tacttctatc accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gtaccgggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca  
gccagaagga 180

cctcctggag cagagggcggg ccgcgggtgga cacctactgc agacacaact  
acgggggttg 240

tgagagcttc acagtgcagc ggcgag  
266

<210> 2547

<211> 225

<212> DNA

<213> Homo sapiens

<400> 2547

tgagtgtcat ttcttcaacg ggacggagcg ggtgcggttc ctggacagat  
acttctatca 60

ccaagaggag tacgtgcgct tcgacagcga cgtgggggag taccgggcgg  
tgacggagct 120

ggggcggcct agcgccgagt actggaacag ccagaaggac ctccctggagc  
agaagcgggc 180

cgcggtggac acctactgca gacacaacta cggggttggt gagag  
225

<210> 2548  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 2548  
tttcttgag caggttaaac atgagtgtca tttcttcaac gggacggagc  
gggtgcggtt 60

cctggacaga tacttctatc accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gtaccggggc gtgacggagc tggggcggcc tagcgccgag tactggaaca  
gccagaagga 180

cctcctggag cagaggcggg ccgcggtgga cacctactgc agacacaact  
acggggtgtg 240

ggagagcttc acagtgcagc ggcgag  
266

<210> 2549  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 2549  
atggtgtgtc tgaagtccc tggaggtcc tgcattggag ctctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc ttgggtggg gacaccgac cacgtttctt  
ggagcagggt 120

aaacatgagt gtcatttctt caacgggacg gacgggtgc ggttcctgga  
cagatacttc 180

tatcaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcggtgacg 240

gagctggggc ggcctagcgc cgagtactgg aacagccaga aggacctcct  
ggagcagagg 300

cgggccgagg tggacacctt ctgcagacac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2550

<211> 261

<212> DNA

<213> Homo sapiens

<400> 2550

ttcttggagc aggttaaaca tgagtgtcat ttcttcaacg ggacggagcg  
ggtgcggttc 60

ctggacagat acttctatca ccaagaggag tacgtgcgct tcgacagcga  
cgtgggggag 120

taccggggcg tgacggagct ggggcggcct agcggcgagt actggaacag  
ccagaaggac 180

atcctggaag acaggcgggc cctggtggac acctactgca gacacaacta  
cggggttggtg 240

gagagcttca cagtgcagcg g  
261

<210> 2551

<211> 234

<212> DNA

<213> Homo sapiens

<400> 2551

catgagtgtc atttcttcaa cgggacggag cgggtgcggt tcctggacag  
atacttctat 60

caccaagagg agtacgtgcg cttcgacagc gacgtggggg agtaccgggc  
ggtgacggag 120

ctggggcggc ctgatgccga gtactggaac agccagaagg acctcctgga  
gcagaagcgg 180

gccgcggtgg acacctactg cagacacaac tacgggggtg tggagagctt caca  
234

<210> 2552

<211> 225

<212> DNA

<213> Homo sapiens

<400> 2552

tgagtgtcat ttcttcaacg ggacggagcg ggtgcggttc ctggacagat  
acttctatca 60

ccaagaggag tacgtgcgct tcgacagcga cgtgggggag taccggggcg  
tgacggagct 120

ggggcgccct gatgccgagt actggaacag ccagaaggac atcctggaag  
acgagcgggc 180

cgcggtggac acctactgca gacacaacta cggggttggt gagag  
225

<210> 2553

<211> 250

<212> DNA

<213> Homo sapiens

<400> 2553

cacgtttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttctctga cagatacttc taccaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag

250

<210> 2554  
<211> 222  
<212> DNA  
<213> Homo sapiens

<400> 2554  
atgagtgtca tttcttcaac gggacggagc ggggtgcggtt cctggacaga  
tacttctatc 60  
  
accaagaggga gtacgtgcg cttcgacagcg acgtggggga gtaccgggag  
gtgacggagc 120  
  
tgggggcgcc tgatgcccg tactggaaca gccagaagga cctcctggag  
cagaagcggg 180  
  
ccgcggtgga cacctactgc agacacaact acggggttgg tg  
222

<210> 2555  
<211> 221  
<212> DNA  
<213> Homo sapiens

<400> 2555  
atgagtgtca tttcttcaac gggacggagc ggggtgcggtt cctggacaga  
tacttctatc 60  
  
accaagaggga gtacgtgcg cttcgacagcg acgtggggga gtaccgggag  
gtgacggagc 120  
  
tgggggcgcc tagcgccgag tactggaaca gccagaagga cctcctggag  
cagagggcgg 180  
  
ccgaggtgga cacctactgc agacacaact acggggttgg t  
221

<210> 2556  
<211> 238  
<212> DNA  
<213> Homo sapiens

<400> 2556  
atgagtgtca tttcttcaac gggacggagc ggggtgcggtt cctggacaga  
tacttctatc 60

accaagagga gtacgtgcgc ttcgacagcg acgtggggga gtaccgggcg  
gtgacgggagc 120

tggggcgggcc tgatgccgag tactggaaca gccagaagga catcctggaa  
gacaggcgggg 180

ccctgggtgga cacctactgc agacacaact acggggttgt ggagagcttc  
acagtga 238

<210> 2557

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2557

tttcttgag caggtaaacc atgagtgtca tttcttcaac gggacgggagc  
gggtgcggtt 60

cctggacaga tacttctatc accaagagga gtccgtgcgc ttcgacagcg  
acgtggggga 120

gtaccgggcg gtgacggagc tggggcgggc tgatgccgag tactggaaca  
gccagaagga 180

cctcctggag cagaggcggg ccgcggtgga cacctactgc agacacaact  
acggggttgg 240

tgagagcttc acagtgcagc ggcgag  
266

<210> 2558

<211> 222

<212> DNA

<213> Homo sapiens

<400> 2558

atgagtgtca tttcttcaac gggacgggagc gggtgcggtt cctggacaga  
tacttctatc 60

accaagagga gtccgtgcgc ttcgacagcg acgtggggga gtaccgggcg  
gtgacgggagc 120

tggggcgcc tgatgccgag tactggaaca gccagaagga cctcctggag  
cagagcggg 180

ccgaggtgga cacctactgc agacacaact acgggggttg tg  
222

<210> 2559

<211> 249

<212> DNA

<213> Homo sapiens

<400> 2559

gagcaggtta aacatgagtg tcatttcttc aacgggacgg agcgggtgcg  
gttcctggac 60

agatacttct atcaccaaga ggagtccgtg cgcttcgaca gcgacgtggg  
ggagtaccgg 120

gcggtgacgg agctggggcg gcctgatgcc gagtactgga acagccagaa  
ggacctcctg 180

gagcagaagc gggccgcggt ggacacctac tgcagacaca actacggggt  
tgttgagagc 240

ttcacagtg

249

<210> 2560

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2560

gagcaggtta aacatgagtg tcatttcttc aacgggacgg agcgggtgcg  
gttcctggac 60

agatacttct atcaccaaga ggagtacgtg cgcttcgaca gcgacgtggg  
ggagtaccgg 120

gcggtgacgg agctggggcg gcctgatgcc gagtactgga acagccagaa  
ggacctcctg 180

gagcagaagc ggggccgggt ggacaactac tgcagacaca actacggggt  
tgttgagagc 240



ttcaca  
246

<210> 2561  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2561  
cacgtttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc gccctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag attcacagtg cagcggcgag  
270

<210> 2562  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2562  
cacgtttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc gccctagcgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2563  
<211> 242  
<212> DNA  
<213> Homo sapiens

<400> 2563  
ttggagcagg ttaaacaatga gtgtcatttc ttcaacggga cggagcgggt  
gcggttcctg 60

gacagatact tctatcacca agaggagtac gtgcgcttcg acagcgacgt  
gggggagtac 120

ggggcgggtga cggagctggg gcggcctgat gccgagtact ggaacagcca  
gaaggacttc 180

ctggaagaca ggcggggccct ggtggacacc tactgcagac acaactacgg  
ggttgtggag 240

ag  
242

<210> 2564  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 2564  
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gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggctgatatac cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cgggcccgcg tggacaccta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2565  
<211> 260  
<212> DNA  
<213> Homo sapiens

<400> 2565  
cacgtttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgc 120  
  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagagg cgggccgagg tggacaccta ctgcagacac  
aactacgggg 240  
  
ctgtggagag cttcacagtg  
260

<210> 2566  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2566  
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gagcgggtgc 60  
  
ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgc 120  
  
gggagtcccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2567  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2567  
cacgtttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60  
  
ggttctctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgatg gagctggggc gccctagcgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2568  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2568  
cacgtttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60  
  
ggttctctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggtggtgacg gagctggggc gccctagcgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2569  
<211> 270

<212> DNA  
<213> Homo sapiens

<400> 2569  
cagctttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagagg cgggccctgg tggacaccta ctgcagacac  
aactacggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2570  
<211> 240  
<212> DNA  
<213> Homo sapiens

<400> 2570  
ttggagcagg ttaaacaatga gtgtcatttc ttcaacggga cggagcgggt  
gcggttctcg 60  
  
gacagatact tctatcacca agaggagtac gtgcgcttcg acagcgacgt  
gggggagtac 120  
  
cgggcgggtga cggagctggg gcggcctgat gccgagtact ggaacagcca  
gaaggacctc 180  
  
ctggagcaga ggcaggccgc ggtggacacc tactgcagac acaactacgg  
ggttggtgag 240

<210> 2571  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2571

cacgtttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcacttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc gccctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2572

<211> 243

<212> DNA

<213> Homo sapiens

<400> 2572

tttcttgag caggtaaac ctgagtgta tttcttcaac gggacggagc  
gggtgcggtt 60

cctggacaga tacttctatc accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gtaccgggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca  
gccagaagga 180

cctcctggag cagaagcggg ccgcggtgga cacctactgc agacacaact  
acggggttgg 240

tga

243

<210> 2573

<211> 260

<212> DNA

<213> Homo sapiens

<400> 2573

cacgtttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg  
260

<210> 2574

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2574

cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

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270

<210> 2575

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2575

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agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2576

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2576

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gagcgggtgc 60

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agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggagcagaag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgttgagag cttcacagtg cagcggcgag  
270

<210> 2577

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2577

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ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120



gggactaccg ggcggtgacg gagctggggc ggccctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgagg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcgg  
266

<210> 2578

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2578

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ggttctctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggccctgatgg cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcgg  
266

<210> 2579

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2579

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ggttctctgga cagatacttc tatcaccaag aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgagg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcgg  
266

<210> 2580

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2580

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ggttctctga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgagg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2581

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2581

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gagcgggtgc 60

ggttctctga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgttgagag cttcacagtg cagcgg  
266

<210> 2582

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2582

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ggttctctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaatta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagc  
264

<210> 2583

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2583

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gtgctgagct ccccaactggc ttgggctggg gacacccaac cacgtttcct  
gtggcagggt 120

aagtataagt gtcatttctt caacgggacg gagcgggtgc agttcctgga  
aagactcttc 180

tataaccagg aggagttcgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcggtgacg 240

gagctagggc ggcctgtcgc cgagtcctgg aacagccaga aggacatcct  
ggaggacagg 300

cgggggcagg tggacaccgt gtgcagacac aactacgggg ttggtgagag  
cttcacagt 360

cagcggcgag  
370

<210> 2584

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2584

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agttcctgga aagactcttc tataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctagggc ggcctgtcgc cgagtcctgg  
aacagccaga 180

aggacatcct ggaggacagg cggggccagg tggacaccgt gtgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2585

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2585

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agttcctgga aagtctcttc tataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctagggc ggccctgtcgc cgagtccctgg  
aacagccaga 180

aggacatcct ggaggacagc cggggccagg tggacaccgt gtgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2586  
<211> 247  
<212> DNA  
<213> Homo sapiens

<400> 2586  
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gggtgcagtt 60

cctggaaaga ctcttctata accaggagga gttcgtgcgc ttcgacagcg  
acgtggggga 120

gtaccggggc gtgacggagc tagggcggcc tgcgccgag tcctggaaca  
gccagaagga 180

catcctggag gacaggcggg gccagggtga caattactgc agacacaact  
acgggggttg 240

tgagagc  
247

<210> 2587  
<211> 258  
<212> DNA  
<213> Homo sapiens

<400> 2587  
cacgtttcct gtggcagggt aagtataagt gtcattttct caacgggagc  
gagcgggtgc 60

agttcctgga aagactcttc tataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctagggc ggcctgtcgc cgagtctctgg  
aacagccgga 180

aggacatcct ggaggacagg cggggccagg tggacaccgt gtgcagacac  
aactacgggg 240

ttggtgagag cttcacag  
258

<210> 2588

<211> 250

<212> DNA

<213> Homo sapiens

<400> 2588

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gagcgggtgc 60

agttcctgga aagactcttc tataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctagggc ggcctgtcgc ggagtactgg  
aacagccaga 180

aggacatcct ggaggacagg cggggccagg tggacaccgt gtgcagacac  
aactacgggg 240

ttggtgagag  
250

<210> 2589

<211> 260

<212> DNA

<213> Homo sapiens

<400> 2589

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agttcctgga aagactcttc tataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctagggc ggcctgtcgc cgagtctctgg  
aacagccaga 180

aggacatcct ggaggacagg cggggccagg tggacaccgt gtgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg  
260

<210> 2590

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2590

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cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tggggggagta ccggggcggg acggagctgg ggcggcctag  
cgccgagtac 180

tggaacagcc agaaggactt cctggaagac aggcggggccc tgggtggacac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcacg gtgcagcggc gag  
283

<210> 2591

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2591

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gagcgggtgc 60

ggttcctgga cagatatctt tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacggtg cagcggcgag  
270

<210> 2592

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2592

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gacactgatg 60

gtgtctgagct ccccaactggc ttggtctggg gacaccagac cacgtttctt  
ggagtactct 120

acgggtgagt gttattttctt caatgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

tataaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcggtgacg 240

gagctggggc ggccctgatgc cgagtactgg aacagccaga aggacttcct  
ggaagacagg 300

cgggccctgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacggtg 360

cagcggcgag  
370

<210> 2593

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2593

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ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120



gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagc cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag ctccacagtg cagcggcgag  
270

<210> 2594

<211> 258

<212> DNA

<213> Homo sapiens

<400> 2594

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gcgggtgcgg 60

ttcctggaca gatacttcta taaccaagag gagtacgtgc gottcgacag  
cgacgtgggg 120

gagtaccggg cggtgacaga gctggggcgg cctgatgccg agtactggaa  
cagccagaag 180

gacttcctgg aagacaggcg ggcctcgggtg gacacctact gcagacacaa  
ctacgggggtt 240

ggtgagagct tcacgggtg  
258

<210> 2595

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2595

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acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctag  
cgccgagtac 180

tggaacagcc agaaggacat cctggaagac aggcggggccc tgggtggacac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2596

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2596

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acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180

tggaacagcc agaaggactt cctggaagac aggcggggccc tgggtggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2597

<211> 228

<212> DNA

<213> Homo sapiens

<400> 2597

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gtgcgcttcg acagcgacgt gggggagtac cgggcgggtga cggagctggg  
gcggcctgat 120

gccgagtact ggaacagcca gaaggacttc ctggaagaca ggcggggcct  
ggtggacacc 180

tactgcagac acaactacgg ggttggtgag agcttcacag tgcagcgg  
228

<210> 2598  
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<212> DNA  
<213> Homo sapiens

<400> 2598  
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ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttgttgagag cttcacggtg cagcggcga  
269

<210> 2599  
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<213> Homo sapiens

<400> 2599  
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ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacggtg cagcggcgag  
270

<210> 2600  
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<212> DNA  
<213> Homo sapiens

<400> 2600  
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ggttctctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggt  
245

<210> 2601  
<211> 271  
<212> DNA  
<213> Homo sapiens

<400> 2601  
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ggagcgggtg 60

cggttccttg acagatactt ctataaccaa gaggagtacg tgcgcttcga  
cagcgacgtg 120

ggggagtacc ggcggtgac ggagctgggg cggcctagcg ccgagtactg  
gaacagccag 180

aaggacttcc tggaagacag gcggggccctg gtggacacct actgcagaca  
caactacggg 240

gttgtggaga gcttcacagt gcagcggcga g  
271

<210> 2602  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2602  
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agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggctgttgcc cgagtactgg  
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aactacgggg 240  
  
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270

<210> 2603  
<211> 240  
<212> DNA  
<213> Homo sapiens

<400> 2603  
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gcggttcctg 60  
  
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gggggagtac 120  
  
cgggcgggtga cggagctggg gcggcctgct gcggagcact ggaacagcca  
gaaggacttc 180  
  
ctggaagaca ggcgggccct ggtggacacc tactgcagac acaactacgg  
ggttggtgag 240

<210> 2604  
<211> 270  
<212> DNA

<213> Homo sapiens

<400> 2604

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ggttctctgga cagatacttc cataaccagg aggagtctct gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtgagag cttcacggtg cagcggcgag  
270

<210> 2605

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2605

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ggttctctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2606

<211> 260

<212> DNA

<213> Homo sapiens

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agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggcctgctgc cgagtactgg  
aacagccaga 180  
  
aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacggtg  
260

<210> 2607  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2607  
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agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180  
  
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aactacgggg 240  
  
ctgtggagag cttcacagtg cagcggcgag  
270

<210> 2608  
<211> 254  
<212> DNA  
<213> Homo sapiens

<400> 2608

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tgacagata cttctataac caagaggagt acgtgcgctt cgacagcgac  
gtgggggagt 120

accggggcgt gacggagctg gggcggcctg atgccgagta ctggaacagc  
cagaaggacc 180

tcttggaaga caggcgggcc ctggtggaca cctactgcag acacaactac  
ggggttggtg 240

agagcttcac ggtg  
254

<210> 2609

<211> 260

<212> DNA

<213> Homo sapiens

<400> 2609

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agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg  
260

<210> 2610

<211> 242

<212> DNA

<213> Homo sapiens

<400> 2610

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gggtgcggtt 60



cctggacaga tacttctata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gtaccgggagc gtgacggagc tggggcggcc tgatgcggag cactggaaca  
gccagaagga 180

catcctgtaa gacaggcggg ccctggtgga cacctactgc agacacaact  
acggggttgg 240

tg  
242

<210> 2611  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2611  
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ggttcctgga cagatacttc tataaccaag aggaggacgt gcgcttcgac  
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gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

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270

<210> 2612  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 2612  
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ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

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246

<210> 2613

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2613

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ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2614

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2614

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gggtgcggtt 60

cctggacaga tacttctata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gtaccgggcg gtagcggagc tggggcggcc tatcgccgag tactggaaca  
gccagaagga 180

catcctggaa gacaggcggg ccctggtgga cacctactgc agacacaact  
acggggttgg 240

tgagagcttc acagtgc  
257

<210> 2615  
<211> 269  
<212> DNA  
<213> Homo sapiens

<400> 2615  
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gagcgggtgc 60

ggttctctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcga  
269

<210> 2616  
<211> 269  
<212> DNA  
<213> Homo sapiens

<400> 2616  
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ggttctctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacggtg cagcggcga  
269

<210> 2617

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2617

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gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ctgtggagag cttcacggtg cagcggcga  
270

<210> 2618

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2618

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gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtga 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2619

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2619

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ggttctctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggcccgcg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcgg  
266

<210> 2620

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2620

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cttcaacggg 60

acggagcggg tgcggtatct gcacagaggc atctataacc aagaggagaa  
cgtgcgcttc 120

gacagcgacg tggggggagta ccgggcggtg acggagctgg ggcggcctgt  
cgccgagtcc 180

tggaacagcc agaaggactt cctggagcgg aggcggggccg aggtggacac  
cgtgtgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagaggc gag  
283

<210> 2621

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2621

cacgtttctt gaagcaggat aagtttgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggtatctgca cagaggcatc tataaccaag aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacttcct ggagcggagg cgggccgagg tggacaccgt gtgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagaggcgag  
270

<210> 2622

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2622

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gacactgatg 60

gtgtgtgagc cccactggc tttggctggg gacaccagac cacgtttctt  
ggaggaggtt 120

aagtttgagt gtcatttctt caacgggacg gagcgggtgc ggttgctgga  
aagacgcgtc 180

cataaccaag aggagtacgc gcgctacgac agcgacgtgg gggagtaccg  
ggcgggtgacg 240

gagctggggc ggctgatgc cgagtactgg aacagccaga aggacctcct  
ggagcggagg 300

cgtgccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2623  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2623  
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gagcgggtgc 60

ggttgctgga aagacgcgtc cataaccaag aggagtacgc gcgctacgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcggagg cgcgccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2624  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 2624  
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gacactgatg 60

gtgctgagct cccactggc ttggtgtggg gacaccagac cacgtttctt  
ggagtactct 120

acgtctgagt gtcatttctt caatgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

tataaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagttccg  
ggcggtgacg 240

gagctggggc ggcctgatga ggagtactgg aacagccaga aggacttcct  
ggaagacagg 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2625

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2625

ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgaggagtac 180

tggaacagcc agaaggactt cctggaagac aggcggggccg cgggtggacac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcacg gtgcagcggc gag  
283

<210> 2626

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2626

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60



ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgcgccgagg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2627

<211> 268

<212> DNA

<213> Homo sapiens

<400> 2627

cgtttcttgg agtactctac gtctgagtgt catttcttca acgggacgga  
gcgggtgcgg 60

ttcctggaca gatacttcta taaccaagag gagtacgtgc gcttcgacag  
cgacgtgggg 120

gagttccggg cggtgacgga gctggggcgg cctgatgagg agtactggaa  
cagccagaag 180

gacttcctgg aagacaggcg ggccgcggtg gacacctact gcagacacaa  
ctacggggtt 240

ggtgagagct tcacagtgca gcggcgag  
268

<210> 2628

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2628

ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgaggagtag 180

tggaacagcc agaaggacat cctggaagac gagcgggccc cggtggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2629

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2629

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gacactgatg 60

gtgtctgagct cccactggc ttggtctggg gacaccagac cacgtttctt  
ggagtactct 120

acgtctgagt gtcattttct caatgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

tataaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtcccg  
ggcggtgacg 240

gagctggggc ggcctgatga ggagtactgg aacagccaga aggacttcct  
ggaagacgag 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2630

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2630

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gacactgatg 60

gtgctgagct ccccaactggc ttggtctggg gacaccagac cacgtttctt  
ggagtactct 120

acgtctgagt gtcatttctt caatgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

tataaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtccg  
ggcggtgacg 240

gagctggggc ggcctgatga ggagtactgg aacagccaga aggacttctt  
ggaagacagg 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2631

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2631

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cttcaatggg 60

acggagcggg tgcggttctt ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgaggagtac 180

tggaacagcc agaaggactt cctggaagac aggcgggccc cggtggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcacg gtgcagcggc gag  
283

<210> 2632

<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2632  
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ggagcgggtg 60

cggttcctgg acagatactt ctataaccaa gaggagtacg tgcgcttcga  
cagcgacgtg 120

ggggagttcc gggcgggtgac ggagctgggg cggcctgatg aggagtactg  
gaacagccag 180

aaggacttcc tggaagacag gcgggcccgc gtggacacct actgcagaca  
caactacggg 240

gttggtgaga gcttcacagt gcagcggcga  
270

<210> 2633  
<211> 268  
<212> DNA  
<213> Homo sapiens

<400> 2633  
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gcgggtgcgg 60

ttctcgaca gatacttcta taaccaagag gagtacgtgc gcttcgacag  
cgacgtgggg 120

gagttccggg cggtgacgga gctggggcgg cctgatgagg agtactggaa  
cagccagaag 180

gacttcctgg aagacaggcg ggccgcggtg gacacctact gcagacacaa  
ctacggggct 240

gtggagagct tcacagtgca gcggcgag  
268

<210> 2634  
<211> 266  
<212> DNA

<213> Homo sapiens

<400> 2634

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gggtgcggtt 60

cctggacaga tacttctata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gttcggggcg gtgacggagc tggggcggcc tgatgaggag tactggaaca  
gccagaagga 180

cttcctggaa gacaggcggg ccgcggtgga cacctattgc agacacaact  
acggggctgt 240

ggagagcttc acagtgcagc ggcgag  
266

<210> 2635

<211> 262

<212> DNA

<213> Homo sapiens

<400> 2635

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gcggttcctg 60

gacagatact tctataacca agaggagtac gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcgggtga cggagctggg gcggcctgat gaggagtact ggaacagcca  
gaaggacctc 180

ctggagcaga agcggggccg ggtggacaac tactgcagac acaactacgg  
ggttggtgag 240

agcttcacag tgcagcggcg ag  
262

<210> 2636

<211> 238

<212> DNA

<213> Homo sapiens

<400> 2636  
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gatacttcta 60

taaccaagag gagtacgtgc gcttcgacag cgacgtgggg gagttccggg  
cggtgacgga 120

gctggggcgg cctgatgagg agtactggaa cagccagaag gacctcctgg  
aagacaggcg 180

ggccgcggtg gacacctact gcagacacaa ctacgggggtt ggtgagagct  
tcacagtg 238

<210> 2637

<211> 238

<212> DNA

<213> Homo sapiens

<400> 2637

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gatacttcta 60

taaccaagag gagtacgtgc gcttcgacag cgacgtgggg gagttccggg  
cggtgacgga 120

gctggggcgg cctgatgagg agtactggaa cagccagaag gacctcctgg  
aagacaggcg 180

ggccgcggtg gacacctact gcagacacaa ctacgggggtt ggtgagagct  
tcacggtg 238

<210> 2638

<211> 231

<212> DNA

<213> Homo sapiens

<400> 2638

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taaccaggag 60

gagaacgtgc gcttcgacag cgacgtgggg gagttccggg cggtgacgga  
gctggggcgg 120

cctgatgagg agtactggaa cagccagaag gacttcctgg aagacaggcg  
ggccgcggtg 180

gacacctact gcagacacaa ctacgggggtt ggtgagagct tcacagtga g  
231

<210> 2639

<211> 219

<212> DNA

<213> Homo sapiens

<400> 2639

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cttcataac 60

caggaggagt tcgtgcgctt cgacagcgac gtgggggaggt tccgggcggt  
gacggagctg 120

ggggggcctg atgaggagta ctggaacagc cagaaggact tcctggaaga  
caggcgggcc 180

gcggtggaca cctactgcag acacaactac ggggttggt  
219

<210> 2640

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2640

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cctggacaga tacttctata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gttcggggcg gtgacggagc tggggcggcc tgatgaggag tactggaaca  
gccagaagg 180

cttcctggaa gacgagcggg ccgcggtgga cacctactgc agacacaact  
acggggttgg 240

tgagagcttc acagtgcagc ggcgag  
266

<210> 2641  
<211> 219  
<212> DNA  
<213> Homo sapiens

<400> 2641  
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cttctataac 60  
  
caagaggagt tcgtgcgctt cgacagcgac gtgggggagt tccggggcgt  
gacggagctg 120  
  
ggcgggcctg atgaggagta ctggaacagc cagaaggact tcctggaaga  
cagcggggcc 180  
  
gcggtggaca cctactgcag acacaactac ggggttggg  
219

<210> 2642  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2642  
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gagcgggtgc 60  
  
ggttcctgga cagatacttc tataaccagg aggagtctcg gcgcttcgac  
agcgacgtgg 120  
  
gggagtcccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180  
  
aggacttcct ggaagacagc cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2643  
<211> 282  
<212> DNA



<213> Homo sapiens

<400> 2643

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cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttccataacc aggaggagtt  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgaggagtag 180

tggaacagcc agaaggacct cctggagcgg aggcgggccg cgggtggacac  
ctattgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc ga  
282

<210> 2644

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2644

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acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgaggagtag 180

tggaacagcc agaaggacat cctggaagac gagcgggccg cgggtggacac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2645

<211> 283

<212> DNA

<213> Homo sapiens

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cttcgcttc 120

gacagcgacg tggggggagt cggggcggtg acggagctgg ggcggcctga  
tgaggagtac 180

tggaacagcc agaaggactt cctggaagac aggcggggccg cgggtggacac  
gtactgcaga 240

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283

<210> 2646  
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<212> DNA  
<213> Homo sapiens

<400> 2646  
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ggttctctga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgggccgagg tggacaceta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2647  
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<212> DNA  
<213> Homo sapiens

<400> 2647

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cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttccataacc aggaggagtt  
cgtgcgcttc 120

gacagcgacg tggggggagta ccgggcgggtg acggagctgg ggcggcctga  
tgaggagtag 180

tggaacagcc agaaggacct cctggagcgg aggcggggccg aggtggacac  
ctattgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2648

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2648

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cctggacaga tactctatata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gttcccggcg gtgacggagc tggggcggcc tgatgaggag tactggaaca  
gccagaagga 180

catcctggaa gacaggcggg ccgcggtgga cacctactgc agacacaact  
acggggttgt 240

ggagagcttc acagtgcagc ggcgag  
266

<210> 2649

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2649

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gggtgcggtt 60

cctggacaga tactttctata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gttcggggcg gtgacggagc tggggcggcc tgatgaggag tactggaaca  
gccagaagga 180

catcctgaa gacaggcggg ccgcggtgga cacctactgc agacacaact  
acggggttgg 240

tgagagcttc acagtgcagc ggcgag  
266

<210> 2650

<211> 256

<212> DNA

<213> Homo sapiens

<400> 2650

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gggggagttc 120

cgggcgggtga cggagctggg gcggcctgat gaggagtact ggaacagcca  
gaaggacatc 180

ctggaagacg agcggggccgc ggtggacacc tactgcagac acaactacgg  
ggttggtgag 240

agcttcacag tgcagc  
256

<210> 2651

<211> 241

<212> DNA

<213> Homo sapiens

<400> 2651

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gcggttcctg 60

gacagatact tctataacca agaggagtac gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctgat gaggagtact ggaacagcca  
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ctggaagacg agcgggccgc ggtggacacc tactgcagac acaactacgg  
ggctgtggag 240

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241

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<211> 250  
<212> DNA  
<213> Homo sapiens

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gagcgggtgc 60

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agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag  
250

<210> 2653  
<211> 247  
<212> DNA  
<213> Homo sapiens

<400> 2653  
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ggagcgggtg 60

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cagcgacgtg 120

ggggagttcc gggcgggtgac ggagctgggg cggcctgatg aggagtactg  
gaacagccag 180

aaggacttcc tgggaagacag gcggggccctg gtggacacct actgcagaca  
caactacggg 240

gttggtg  
247

<210> 2654  
<211> 251  
<212> DNA  
<213> Homo sapiens

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ggtgcgggttc 60

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cgtgggggag 120

ttccgggcgg tgacggagct ggggcggcct gatgaggagt actggaacag  
ccagaaggac 180

ttcctggaag acaggcgggc cgcggtggac acctactgca gacacaacta  
cggggttggt 240

gagagcttca c  
251

<210> 2655  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2655  
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ggttctctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2656

<211> 240

<212> DNA

<213> Homo sapiens

<400> 2656

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gacagatact tctataacca agaggagtac gtgcgcctcg acagcgacgt  
gggggagttc 120

cgggcgggta cggagctggg gcggcctgat gaggagtact ggaacagcca  
gaaggacctc 180

ctggagcaga ggcggggccgc ggtggacacc tactgcagac acaactacgg  
ggttggtgag 240

<210> 2657

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2657

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cctggacaga tactttctata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gttcggggcg gtgacggagc tggggcggcc tgatgaggag tactggaaca  
gccagaagga 180

cttcctggaa gacaggcggg ccgcggtgga caattactgc agacacaact  
acggggttg 240

tgagag  
246

<210> 2658  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2658  
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ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaacta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2659  
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<212> DNA  
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ggttcctgga cagatacttc tataaccaag aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240



ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2660  
<211> 270  
<212> DNA  
<213> Homo sapiens

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agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc gccctgatga ggagtactgg  
aacagccaga 180

aggacttctt ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2661  
<211> 269  
<212> DNA  
<213> Homo sapiens

<400> 2661  
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gagcgggtgc 60

ggttctctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc gccctgatga ggagtactgg  
aacagccaga 180

aggacttctt ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgga  
269

<210> 2662  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2662  
ggggacacca gaccacgttt ctggagtag tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccggggcggg acggagctgg ggcggcctga  
tgaggagcac 180

tggaacagcc agaaggacat cctggaagac aggcggggccg cgggtggacac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2663  
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<212> DNA  
<213> Homo sapiens

<400> 2663  
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gagcgggtgc 60

ggttctctga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgtgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2664  
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<212> DNA  
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<400> 2664  
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gcggttcctg 60  
  
gacagatact tctataacca agaggagtag gtgcgcttcg acagcgacgt  
gggggagttc 120  
  
cgggcggtga cggagctggg gcggcctgat gaggactact ggaacagcca  
gaaggacttc 180  
  
ctggaagaca ggcggggccgc ggtggacacc tactgcagac acaactacgg  
ggttggtgag 240  
  
agcttcacag tgcagcggc  
259

<210> 2665  
<211> 269  
<212> DNA  
<213> Homo sapiens

<400> 2665  
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gagcgggtgc 60  
  
ggttcctgga cagatacttc tataaccaag aggagtagct gcgcttcgac  
agcgacgtg 120  
  
gggagtcccg ggcggtgacg gagctggggc gccctgatga ggagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacggg 240  
  
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269

<210> 2666  
<211> 259

<212> DNA  
<213> Homo sapiens

<400> 2666  
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gcggttcctg 60  
  
gacagatact tctataacca agaggagtac gtgcgcttcg acagcgacgt  
gggggagttc 120  
  
cgggcggtga cggagctggg gcggcctgat gaggactact ggaacagcca  
gaaggacttc 180  
  
ctggaagaca ggcgggccgc ggtggacacc tactgcagac acaactacgg  
ggttgtagg 240  
  
agcttcacag tgcagcggc  
259

<210> 2667  
<211> 267  
<212> DNA  
<213> Homo sapiens

<400> 2667  
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gcgggtgcgg 60  
  
ttcctggaca gatacttcta taaccaagag gagtacgtgc gcttcgacag  
cgacgtgggg 120  
  
gagttccggg cggtgacgga gctggggcgg cctgatgagg agtactggaa  
cagccagaag 180  
  
gacctcctgg aagacgagcg ggccgcggtg gacacctact gcagacacaa  
ctacggggtt 240  
  
gtggagagct tcacagtgca gcggcga  
267

<210> 2668  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2668  
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gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2669  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2669  
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ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatga ggggtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2670  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2670

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gagcgggtgc 60

ggttctctgga cagatacttc tataaccaag aggagtagct gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgagg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2671

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2671

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gagcgggtgc 60

ggttctctgga cagatacttc cataaccagg aggagaacct gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtgg  
246

<210> 2672

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2672

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gggtgcggtt 60

cctggacaga tactttctata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gtaccgggcg gtgacggagc tggggcggcc tgatgaggag tactggaaca  
gccagaagga 180

cttcctggaa gacgagcggg ccgcggtgga cacctactgc agacacaact  
acggggttgt 240

ggagagcttc acagtgcagc ggcgag  
266

<210> 2673

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2673

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ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtccg ggcggtgacg gagctggggc ggctgatga ggagtactgg  
aacagccaga 180

aggacctcct ggaagacagc cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2674

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2674

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ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgagg gagctggggc ggctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2675

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2675

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gtgtgagct cccactggc ttggctggg gacaccagac cacgtttctt  
ggagtactct 120

acgggtgagt gttatttctt caatgggacg gagcgggtgc gggtactgga  
gagacacttc 180

cataaccagg aggagctcct gcgcttcgac agcgacgtgg gggagtccg  
ggcggtgacg 240

gagctggggc ggcctgtcgc cgagtcctgg aacagccaga aggacatcct  
ggaagacagg 300

cgcgccgcgg tggacaccta ttgcagacac aactacgggg ctgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2676

<211> 370

<212> DNA

<213> Homo sapiens



<400> 2676

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gtgctgagct cccactggc ttggctggg gacaccagac cacgtttctt  
ggagtactct 120

acgggtgagt gttatttctt caatgggacg gagcgggtgc ggttactgga  
gagacacttc 180

cataaccagg aggagctcct gcgcttcgac agcgacgtgg gggagtcccg  
ggcggtgacg 240

gagctggggc ggcctgtcgc cgagtcctgg aacagccaga aggacatcct  
ggaagacagg 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ctgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2677

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2677

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ggttactgga gagacacttc cataaccagg aggagctcct gcgcttcgac  
agcgacgtgg 120

gggagtcccg ggcgttgacg gagctggggc ggcctgtcgc cgagtcctgg  
aacagccaga 180

aggacttcct ggaagacagg cgcgccgcgg tggacaccta ttgcagacac  
aactacgggg 240

ctgtggagag cttcacagtg cagcggcgag  
270

<210> 2678

<211> 243  
<212> DNA  
<213> Homo sapiens

<400> 2678  
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ggtgcggtta 60

ctggagagac acttcataa ccaggaggag ctcttcgcct tcgacagcga  
cgtgggggag 120

ttccgggagg tgacggagct ggggcggcct gtcgccgagt cctggaacag  
ccagaaggac 180

ttcttggaag acaggcgcgc cgcggtggac acctactgca gacacaacta  
cggggctgtg 240

gag  
243

<210> 2679  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 2679  
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gagcgggtgc 60

ggttactgga gagacacttc cataaccagg aggagctcct gcgcttcgac  
agcgacgtgg 120

gggagtcccg ggcggtgacg gagctggggc ggctgtgcgc cgagtctcgg  
aacgccaga 180

aggacatcct ggaagacagg cgcgccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcgg  
266

<210> 2680  
<211> 235  
<212> DNA

<213> Homo sapiens

<400> 2680

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gttactggag 60

agacacttcc ataaccagga ggagctcctg cgcttcgaca gcgacgtggg  
ggagttccgg 120

gcggtgacgg agctggggcg gcctgatgag gagtactgga acagccagaa  
ggacatcctg 180

gaagacagcg gcgccgcggt ggacacctat tgcagacaca actacggggc  
tgtgg 235

<210> 2681

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2681

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ggttactgga gagacacttc cataaccagg aggagttcct gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgtcgc cgagtctctg  
aacagccaga 180

aggacatcct ggaagacagg cgcgccgcgg tggacaccta ttgcagacac  
aactacgggg 240

ctgtggagag cttcacagtg cagcggcgag  
270

<210> 2682

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2682

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cttcaatggg 60

acggagcggg tgcggttact ggagagacac ttccataacc aggaggagct  
cctgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctgt  
cgccgagtcc 180

tggaacagcc agaaggacat cctggaagac aggcgcgcgg cgggtggacac  
ctattgcaga 240

cacaactacg gggctgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2683

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2683

cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60

ggttactgga gagacacttc cataaccagg aggagctcct gcgcttcgac  
agcgacgtgg 120

gggagtccg ggcggtgacg gagctggggc ggctgtcgc cgagtctgg  
aacagccaga 180

aggacatcct gggagacagg cgcgccgagg tggacaccta ttgcagacac  
aactacggg 240

ctgtggagag cttcacagtg cagcggcgag  
270

<210> 2684

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2684

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ggttcctgga gagacacttc cataaccagg aggagctcct gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggctgtgcgc cgagtctctg  
aacagccaga 180

aggacatcct ggaagacagg cgcgccgcgg tggacaccta ttgcagacac  
aactacgggg 240

ctgtggagag cttcacagtg cagcggcgag  
270

<210> 2685

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2685

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acggagcggg tgcggttcct ggacagatac ttccataacc aggaggagaa  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180

tggaacagcc agaaggacat cctggaagac gagcggggccg cgggtggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2686

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2686

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gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgggctgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2687

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2687

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ggttctctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgggccgcgg tggacaccta ttgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2688

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2688

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cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180

tggaacagcc agaaggacat cctggaagac gagcgggccc cggtggacac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2689

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2689

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agcgacgtgg 120

gggagtccg ggcggtgacg gagctggggc gccctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgcgccggg tggacaccta ctgcagacac  
aactacgggg 240

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266

<210> 2690

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2690

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cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctag  
cgccgagtac 180

tggaacagcc agaaggacat cctggaagac aagcgggccg cgggtggacac  
ctactgcaga 240

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283

<210> 2691

<211> 262

<212> DNA

<213> Homo sapiens

<400> 2691

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gggggagtag 120

cgggcggtga cggagctggg gcggcctagc gccgagtact ggaacagcca  
gaaggacatc 180

ctggaagaca agcgggccgc ggtggacacc tactgcagac acaactacgg  
ggttggtgag 240

agcttcacag tgcagcggcg ag  
262

<210> 2692

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2692

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cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctag  
cgccgagtag 180



tggaacagcc agaaggacat cctggaagac gagcggggccg cgggtggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2693

<211> 268

<212> DNA

<213> Homo sapiens

<400> 2693

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gcgggtgcgg 60

ttctcgaca gatacttcca taaccaggag gagaacgtgc gcttcgacag  
cgacgtgggg 120

gagttccggg cggtgacgga gctggggcgg cctgatgccg agtactggaa  
cagccagaag 180

gacttcctgg aagacaggcg ggccgcggtg gacacctact gcagacacaa  
ctacggggtt 240

ggtgagagct tcacagtgca gcggcgag  
268

<210> 2694

<211> 228

<212> DNA

<213> Homo sapiens

<400> 2694

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ccataaccag 60

gaggagaacg tgcgcttcga cagcgacgtg ggggagttcc gggcggtgac  
ggagctgggg 120

cggcctgatg ccgagtactg gaacagccag aaggacatcc tggaagacag  
gcgggccgcg 180

gtggacacct actgcagaca caactacggg gttgtggaga gcttcaca  
228

<210> 2695  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2695  
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gagcgggtgc 60  
  
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agcgacgtgc 120  
  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2696  
<211> 268  
<212> DNA  
<213> Homo sapiens

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gagcgggtgc 60  
  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgc 120  
  
gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180  
  
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aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcg  
268

<210> 2697  
<211> 255  
<212> DNA  
<213> Homo sapiens

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ggtgcggttc 60  
  
ctggacagat acttccataa ccaggaggag ttcgtgcgct tcgacagcga  
cgtgggggag 120  
  
taccgggcgg tgacggagct ggggcggcct gatccgagt actggaacag  
ccagaagcac 180  
  
atcctggaag acgagcgggc cgcggtggac acctactgca gacacaacta  
cggggttgtg 240  
  
gagagcttca cagtg  
255

<210> 2698  
<211> 256  
<212> DNA  
<213> Homo sapiens

<400> 2698  
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acgtggggga 120  
  
gttcggggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca  
gccagaagga 180  
  
catcctggag caggcgcggg ccgcggtgga cacctactgc agacacaact  
acggggttgt 240  
  
ggagagcttc acagtg  
256

<210> 2699  
<211> 270

<212> DNA  
<213> Homo sapiens

<400> 2699  
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gagcgggtgc 60  
  
ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg  
aacagccaga 180  
  
aggacatcct ggaagacaag cgggccgcgg tggacaccta ctgcagacac  
aactacggg 240  
  
ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2700  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2700  
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ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg  
aacagccaga 180  
  
aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacggg 240  
  
ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2701  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2701  
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ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2702

<211> 262

<212> DNA

<213> Homo sapiens

<400> 2702  
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agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg ca  
262

<210> 2703

<211> 227

<212> DNA

<213> Homo sapiens

<400> 2703

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ctataaccaa gaggagtacg tgcgcttcga cagcgacgtg ggggagttcc  
ggcggtgac 120

ggagctgggg cggcctgatg ccgagtactg gaacagccag aaggacttcc  
tggagacag 180

gcgggccgcg gtggacacct actgcagaca caactacggg gttggtg  
227

<210> 2704

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2704

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ggttctcgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2705

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2705

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cctggagaga tacttccata accaggagga gaacgtgcgc ttcgacagcg  
acgtggggga 120

gttccgggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca  
gccagaagga 180

catcctggaa gacgagcggg ccgcggtgga cacctactgc agacacaact  
acggggttgt 240

ggagagcttc acagtgcagc ggcgag  
266

<210> 2706

<211> 247

<212> DNA

<213> Homo sapiens

<400> 2706

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cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg  
gggagttccg 120

ggcggtgacg gagctggggc ggcttgatgc cgagtactgg aacagccaga  
aggacatcct 180

ggaagacgag cgggcccgcg tggtacaccta ctgcagacac aactacgggg  
ttgatgagag 240

cttcaca

247

<210> 2707

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2707

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acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180

tggaacagcc agaaggacat cctggaagac gagcgggccc cggtggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2708

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2708

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ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagtcccg ggcggtgacg gagctggggc gccctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2709

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2709

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acggagcggg tgcggttcct ggagagatac ttccataacc aggaggagtt  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180



tggaacagcc agaaggacat cctggaagac gagcgggccg cgggtggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2710

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2710

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ggttctctgga cagatacttc cataaccagg aggagaacct gcgcttcgac  
agcgacgtgc 120

gggagttccg ggcgggtgacg gagctggggc gccctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggaagacgag cgggcccgcg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcgg  
266

<210> 2711

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2711

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acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tggggggagtt ccgggcggtg acggagctgg ggcggcctag  
cgccgagtag 180

tggaacagcc agaaggactt cctggaagac aggcggggccg cgggtggacac  
ctactgcaga 240

cacaactacg ggggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2712

<211> 273

<212> DNA

<213> Homo sapiens

<400> 2712

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gacagcgacg 120

tgggggagtt ccgggcggtg acggagctgg ggcggcctga tgccgagtag  
tggaacagcc 180

agaaggacat cctggaagac gagcggggccg cgggtggacac ctactgcaga  
cacaactacg 240

gggttggtgga gagcttcaca gtgcagcggc gag  
273

<210> 2713

<211> 265

<212> DNA

<213> Homo sapiens

<400> 2713

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cgacgtgggg 120

gagttccggg cggtgacgga gctggggcgg cctgatgccg agtactggaa  
cagccagaag 180

gacatcctgg aagacgagcg ggccgcggtg gacacctact gcagacacaa  
ctacggggtt 240

ggtgagagct tcacggtgca gcggc  
265

<210> 2714  
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cgacgtgggg 120

gagttccggg cggtgacgga gctggggcgg cctgatgccg agtactggaa  
cagccagaag 180

gacttcctgg aagacgagcg ggccgcgggtg gacacctact gcagacacaa  
ctacgggggtt 240

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265

<210> 2715  
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<212> DNA  
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gggagttccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggaagacagc cgggccgcgg tggacaccta ctgcagacac  
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249

<210> 2716  
<211> 270  
<212> DNA  
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aacagccaga 180

aggacttcct ggaagacagg cgcgccgcgg tggacaccta ctgcagacac  
aactacgggg 240

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270

<210> 2717  
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agcgacgtgg 120

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aacagccaga 180

aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

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270

<210> 2718  
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<212> DNA  
<213> Homo sapiens

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gacagatact tccataacca ggaggagaac gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcgggtga cggagctggg gcggcctgat gccgagtact ggaacagcca  
gaaggacatc 180

ctggaagacg agcggggccgc ggtggacacc tactgcagac acaactaccg  
ggttgtggag 240

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248

<210> 2719  
<211> 270  
<212> DNA  
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agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2720  
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<212> DNA  
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acgtggggga 120

gttcggggcg gtgacggagc tggggcgggc tagcgccgag tactggaaca  
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catcctggaa gacaggcggg ccgcggtgga cacctactgc agacacaact  
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253

<210> 2721  
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agcgacgtgg 120

gggagttcgg ggcggtgacg gagctggggc ggcctgtcgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

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269

<210> 2722  
<211> 270

<212> DNA  
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agcgacgtgg 120  
  
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aacagccaga 180  
  
aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
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270

<210> 2723  
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<212> DNA  
<213> Homo sapiens

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agcgacgtgg 120  
  
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aacagccaga 180  
  
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246

<210> 2724  
<211> 270  
<212> DNA  
<213> Homo sapiens

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agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

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270

<210> 2725

<211> 266

<212> DNA

<213> Homo sapiens

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agcgacgtgg 120

gggagttcct ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

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266

<210> 2726

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2726



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<211> 269

<212> DNA

<213> Homo sapiens

<400> 2727

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<211> 245

<212> DNA

<213> Homo sapiens

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<211> 270

<212> DNA

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aacagccaga 180

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<212> DNA

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cgggcggtga cggagctggg gcggcctgat gccgagtact ggaacagcca  
gaaggacatc 180

ctggaagacg agcggggccgc ggtggacacc tactgcagac acaactacgg  
ggttgtagag 240

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<211> 270

<212> DNA

<213> Homo sapiens

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aacagccaga 180

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<211> 270

<212> DNA

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aacagccaga 180

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<213> Homo sapiens

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aacagccaga 180

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<211> 270

<212> DNA

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<211> 242

<212> DNA

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cgggcggtga cggagctggg gcggcctgct gcggagcact ggaacagcca  
gaaggacatc 180

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242

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<211> 270

<212> DNA

<213> Homo sapiens

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aacagccaga 180

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<211> 270

<212> DNA

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aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

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<210> 2738

<211> 270

<212> DNA

<213> Homo sapiens

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aacagccaga 180

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aactacgggg 240

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<211> 266

<212> DNA

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aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
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<212> DNA

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aactacgggg 240

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270

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aactacgggg 240

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270

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gggagttccg ggcgttgacg gagctggggc ggctgatgc cgagtactgg  
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aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240



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260

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269

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270

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acgtggggga 120  
  
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gccagaagga 180  
  
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266

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cagatacttc 180  
  
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ggcggtgacg 240  
  
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370

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370

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370

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<211> 270

<212> DNA

<213> Homo sapiens

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<400> 2756

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<212> DNA

<213> Homo sapiens

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gccagaagga 180

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<210> 2758

<211> 261

<212> DNA

<213> Homo sapiens

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<211> 235

<212> DNA

<213> Homo sapiens

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<211> 235

<212> DNA

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<211> 255

<212> DNA

<213> Homo sapiens

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247

<210> 2764  
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<212> DNA  
<213> Homo sapiens

<400> 2764  
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gacagatact tccataacca ggaggagttc gtgcgcttcg acagcgacgt  
gggggagtag 120

ggggcggtga cggagctggg gcggcctgct gcggagcact ggaacagcca  
gaaggacatc 180

ctggaagacg agcggggccg ggtggacacc tactgcagac acaactacgg  
ggttgaggag 240

<210> 2765  
<211> 266  
<212> DNA

<213> Homo sapiens

<400> 2765

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ggttctctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcgg  
266

<210> 2766

<211> 258

<212> DNA

<213> Homo sapiens

<400> 2766

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gttcctggag 60

agatacttcc ataaccagga ggagaacgtg cgcttcgaca gcgacgtggg  
ggagtaccgg 120

gcggtgacgg agctggggcg gcctgatgct gagtactgga acagccagaa  
ggacctcctg 180

gagcggaggc gggccgaggt ggacacctat tgcagacaca actacggggg  
tgtggagagc 240

ttcacagtgc agcggcga  
258

<210> 2767

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2767

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acggagcggg tgcggttcct ggagagatac ttccataacc aggaggagaa  
cgtgcgcttc 120

gacagcgacg tggggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtag 180

tggaacagcc agaaggacct cctggagcag aagcgggccg cgggtggacac  
ctactgcaga 240

cacaactacg gggttgggtga gagcttcaca  
270

<210> 2768

<211> 241

<212> DNA

<213> Homo sapiens

<400> 2768

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gcggttcctg 60

gagagatact tccataacca ggaggagttc gtgcgcttcg acagcgacgt  
gggggagtag 120

cgggcgggtga cggagctggg gcggcctgat gccgagtact ggaacagcca  
gaaggacctc 180

ctggagcaga ggcgggccgc ggtggacacc tactgcagac acaactacgg  
ggttgtggag 240

a

241

<210> 2769

<211> 241

<212> DNA

<213> Homo sapiens

<400> 2769

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gcggttcctg 60

gacagatact tccataacca ggaggagaac gtgcgcttcg acagcgacgt  
gggggagtgc 120

cgggcggtga cggagctggg gcggcctgat gccgagtact ggaacagcca  
gaaggacctc 180

ctggagcaga agcggggccgc ggtggacacc tactgcagac acaactacgg  
ggttgtggag 240

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241

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<212> DNA  
<213> Homo sapiens

<400> 2770  
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ggttcctgga cagatacttc cataaccagg aggagtctgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc gccctgctgc ggagcactgg  
aacagccaga 180

aggacttctt ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2771  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2771  
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ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2772

<211> 265

<212> DNA

<213> Homo sapiens

<400> 2772

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ctggagagat acttccataa ccaggaggag aacgtgcgct tcgacagcga  
cgtgggggag 120

taccgggcgg tgacggagct ggggcggcct gatgccgagt actggaacag  
ccagaaggac 180

atcctggagc aggcgcgggc cgcggtggac acctactgca gacacaacta  
cggggttggt 240

gagagcttca cagtgcagcg gcgag  
265

<210> 2773

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2773

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cctggacaga tactttctata accaagagga gtacgtgcgc ttcgacacgc  
acgtggggga 120

gtaccggcg gtgacggagc tggggcggcc tgctgcggag cactggaaca  
gccagaagga 180

cttcctggaa gacaggcggg ccgcggtgga cacctactgc agacacaact  
acggggttg 240

tgagagcttc acagtgcagc ggcgag  
266

<210> 2774

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2774

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agttctcgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgctgc ggagcactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcgcgag  
270

<210> 2775

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2775

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ggttcctgga gagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120



gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtgagag cttcacagtg cagcggcgag  
270

<210> 2776

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2776

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ggttctctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggctgctgc ggagcactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

ctgtggagag cttcaca  
257

<210> 2777

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2777

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ggttctctgga gagatacttc cataaccagg aggagaacct gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ctgtggagag cttcacagtg cagcggcgag  
270

<210> 2778

<211> 253

<212> DNA

<213> Homo sapiens

<400> 2778

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cctggacaga tacttccata accaggagga gaacgtgcgc ttcgacagcg  
acgtggggga 120

gttcggggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca  
gccagaagga 180

cctcctggag cagaggcggg ccgcggtgga cacctactgc agacacaact  
acggggttgg 240

tgagagcttc aca  
253

<210> 2779

<211> 253

<212> DNA

<213> Homo sapiens

<400> 2779

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gggtgcggtt 60

cctggacaga tacttccata accaggagga gttcgtgcgc ttcgacagcg  
acgtggggga 120

gtaccggggcg gtgacggagc tggggcggcc tgctgccgag cactggaaca  
gccagaagga 180

cctcctggag cggaggcggg ccgcggtgga cacctattgc agacacaact  
acggggttgc 240

ggagagcttc aca  
253

<210> 2780  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2780  
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gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagtctcg gcgcttcgac  
agcgacgtgc 120

gggagtaccg ggcggtgacg gagctggggc ggcctgctgc ggagcactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2781  
<211> 259  
<212> DNA  
<213> Homo sapiens

<400> 2781  
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gcggttcctg 60

gacagatact tcataacca ggaggagaac gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctgat gccgagtact ggaacagcca  
gaaggacctc 180

ctggagcaga ggcgggccga ggtggacacc tactgcagac acaactacgg  
ggttgtggag 240

agcttcacag tgcagcggc  
259

<210> 2782

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2782

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gagcgggtgc 60

ggttctctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc ggagcactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgcgg tggacaccta ttgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2783

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2783

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ggttctctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtcccg ggcggtgacg gagctggggc ggcctgctgc ggagcactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

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266

<210> 2784  
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<213> Homo sapiens

<400> 2784  
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ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgc 120

gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

ttgtgagag cttcacagtg cagcggcgag  
270

<210> 2785  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2785  
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ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgc 120

gggagtaccg ggcggtgacg gagctggggc ggctgatgc tgagtactgg  
aacagccaga 180

aggacatcct ggagcaggcg cgggccgagg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2786

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2786

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ggttctctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgctgc ggagcactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaatta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2787

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2787

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ggttctctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgctgc ggagcactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2788  
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<213> Homo sapiens

<400> 2788  
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ggttcctgga gagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2789  
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<212> DNA  
<213> Homo sapiens

<400> 2789  
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ggttcctgga gagatacttc cataaccagg aggagttcct gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggcccgcg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgga  
269

<210> 2790  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2790  
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ggttctctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
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aactacgggg 240  
  
ttgttgagag cttcacagtg cagcggcgag  
270

<210> 2791  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2791  
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agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc tgagtactgg  
aacagccaga 180  
  
aggacctctt ggagcggagg cgggccgagg tggacgccta ttgcagacac  
aactacgggg 240  
  
ttgttgagag cttcacagtg cagcggcgag  
270

<210> 2792  
<211> 270



<212> DNA  
<213> Homo sapiens

<400> 2792  
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agcgacgtgg 120  
  
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aactacgggg 240  
  
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270

<210> 2793  
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<212> DNA  
<213> Homo sapiens

<400> 2793  
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agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggctgatgc tgagtactgg  
aacagccaga 180  
  
aggacatcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240  
  
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270

<210> 2794  
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<212> DNA  
<213> Homo sapiens

<400> 2794

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gacactgatg 60

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gtggcagcct 120

aagaggaggt gtcattttctt caatgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

tataaccagg aggagtccgt gcgcttcgac agcgacgtgg gggagtcccg  
ggcggtgacg 240

gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacatcct  
ggagcaggcg 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2795

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2795

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ggttcctgga cagatacttc tataaccagg aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagtcccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacatcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacggag 240

ttgtggagag cttcacagtg cagcgg  
266

<210> 2796  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 2796  
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gagcgggtgc 60  
  
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agcgacgtgg 120  
  
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aacagccaga 180  
  
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aactacgggg 240  
  
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266

<210> 2797  
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<212> DNA  
<213> Homo sapiens

<400> 2797  
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agcgacgtgg 120  
  
gggagtctccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacatcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2798  
<211> 283

<212> DNA  
<213> Homo sapiens

<400> 2798  
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cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
cgctgagtac 180

tggaacagcc agaaggacat cctggagcag gcgcgggccc cgggtggacac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2799  
<211> 220  
<212> DNA  
<213> Homo sapiens

<400> 2799  
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gacggagctg 120

gggcggcctg atgccgagta ctggaacagc cagaaggaca tcctggagca  
ggcgcgggcc 180

gcggtggaca cctactgcag acacaactac ggggttggtg  
220

<210> 2800  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 2800

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agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacatcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2801

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2801

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acggagcggg tgcggttcct ggacagacac ttctataacc aggaggagtc  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctga  
cgctgagtag 180

tggaacagcc agaaggacat cctggagcag gcgcggggccg cgggtggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2802

<211> 255

<212> DNA

<213> Homo sapiens

<400> 2802

ttctgtggc agcctaagag ggagtgtcat ttcttcaatg ggacggagcg  
ggtgcggttc 60

ctggacagat acttctataa ccaggaggag tccgtgcgct tcgacagcga  
cgtgggggag 120

ttccgggcgg tgacggagct ggggcggcct gacgctgagt actggaacag  
ccagaaggac 180

ttcctggagc aggcgcgggc cgcggtggac acctactgca gacacaacta  
cggggttggtg 240

gagagcttca cagtg  
255

<210> 2803

<211> 261

<212> DNA

<213> Homo sapiens

<400> 2803

ttcctgtggc agcctaagag ggagtgtcat ttcttcaatg ggacggagcg  
ggtgcggttc 60

ctggacagat acttctataa ccaggaggag tccgtgcgct tcgacagcga  
cgtgggggag 120

ttccgggcgg tgacggagct ggggcggcct gacgctgagt actggaacag  
ccagaaggac 180

ctcctggagc aggcgcgggc cgcggtggac acctactgca gacacaacta  
cggggttggtg 240

gagagcttca cagtgcagcg g  
261

<210> 2804

<211> 262

<212> DNA

<213> Homo sapiens

<400> 2804

ctgtggcagc ctaagaggga gtgtcatttc ttcaatggga cggagcgggt  
cgggttctctg 60

gacagatact tctataacca ggaggagtcc gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggcga cggagctggg gcggcctgac gctgagtact ggaacagcca  
gaaggacatc 180

ctggagcagg cgcgggccgc ggtggacacc tactgcagac acaactacgg  
ggttgaggag 240

agcttcacag tgcagcggcg ag  
262

<210> 2805

<211> 247

<212> DNA

<213> Homo sapiens

<400> 2805

tttcctgtgg cagcctaaga gggagtgtca tttcttcaat gggacggagc  
gggtgcggtt 60

cctggacaga tactttcata accaggagga gtccgtgcgc ttcgacagcg  
acgtggggga 120

gtaccgggcg gtgacggagc tggggcggcc tgacgctgag tactggaaca  
gccagaagga 180

catcctggag caggcgcggg ccgcggtgga cacctactgc agacacaact  
acggggttgt 240

ggagagc  
247

<210> 2806

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2806

cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccagg aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcttgacgc tgagtactgg  
aacagccaga 180

agaacatcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtgagag cttcacagtg cagcggcgag  
270

<210> 2807

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2807

cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttctctgga cagatacttc tataaccagg aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagttcca ggcggtgacg gagctggggc ggcttgacgc tgagtactgg  
aacagccaga 180

aggacatcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2808

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2808

gtttctctgtg gcagcctaag agggagtgtc atttcttcaa tgggacggag  
cgggtgcggt 60

tcctggacag atacttctat aaccaggagg agtccgtgcg cttcgacagc  
gacgtggggg 120



agttccgggc ggtgacggag ctggggcggc ctgacgctga gtactggaac  
agccagaagg 180

acatcctgga agacgagcgg gccgcggtgg acacctactg cagacacaac  
tacggggttg 240

tggagagc  
248

<210> 2809

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2809

cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccagg aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacatcct ggagcaggcg cgggccgagg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2810

<211> 271

<212> DNA

<213> Homo sapiens

<400> 2810

gcacgtttcc tgtggcagcc taagagggag tgtcatttct tcaatgggac  
ggagcgggtg 60

cggttcctgg acagatactt ctataaccag gaggagtcgg tgcgcttcga  
cagcgacgtg 120

ggggagtccc gggcggtgac ggagctgggg cggcctagcg ccgagtactg  
gaacagccag 180

aagacatcc tggagcaggc gcgggccgcg gtggacacct actgcagaca  
caactacggg 240

gtttgtgaga gcttcacagt gcagcggcga g  
271

<210> 2811

<211> 263

<212> DNA

<213> Homo sapiens

<400> 2811

cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccagg aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccagg 180

acatcctgga gcaggcgcgg gccgcggtgg acacctactg cagacacaac  
tacggggttg 240

tggagagctt cacagtgcag cgg  
263

<210> 2812

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2812

atggtgtgtc tgaagctccc tggaggctcc tgcattgacag cgctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc ttgggtggg gacacccgac cacgtttcct  
gtggcagcct 120

aagagggagt gtcatttctt caatgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

tataaccagg aggagtcctg gcgcttcgac agcgacgtgg gggagtaccg  
ggcgggtgacg 240

gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacttcct  
ggaagacagc 300

cgcgcgcgcg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2813

<211> 255

<212> DNA

<213> Homo sapiens

<400> 2813

cgtttcctgt ggcagcctaa gagggagtgt catttcttca atgggacgga  
gcgggtgcgg 60

ttctcgaca gatacttcta taaccaggag ggtccgtgc gcttcgacag  
cgacgtgggg 120

gagtaccggg cggtgacgga gctggggcgg cctgacgtg agtactggaa  
cagccagaag 180

gacttcctgg aagacaggcg ggccgcggtg gacacctact gcagacacaa  
ctacggggtt 240

ggtgagagct tcaca  
255

<210> 2814

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2814

atggtgtgtc tgaagctccc tggaggctcc tgcattgacag cgctgacagt  
gacactgatg 60

gtgctgagct cccactggc tttggctggg gacacccgac cacgtttcct  
gtggcagcct 120

aagaggaggt gtcattttctt caatgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

tataaccagg aggagtccgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcgggtgacg 240

gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacctcct  
ggaagacagg 300

cgcgccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2815

<211> 242

<212> DNA

<213> Homo sapiens

<400> 2815

tttcctgtgg cagcctaaga gggagtgtca tttcttcaat gggacggagc  
gggtgcggtt 60

cctggacaga tactttctata accaggagga gtccgtgcgc ttcgacagcg  
acgtggggga 120

gtaccggggc gtgacggagc tggggcggcc tgacgctgag tactggaaca  
gccagaagga 180

cctcctggaa gacaggcggg ccgcggtgga cacctactgc agacacaact  
acggggttgg 240

tg  
242

<210> 2816

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2816

atggtgtgtc tgaagctccc tggaggtccc tgcattgacag cgctgacagt  
gacactgatg 60

gtgtctgagct cccactggc ttggtctggg gacacccgac cacgtttcct  
gtggcagcct 120

aagagggagt gtcatttctt caatgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

tataaccagg aggagtcctg gcgcttcgac agcgacgtgg gggagtaccg  
ggcggtgacg 240

gagctggggc ggctgacgc tgagtactgg aacagccaga aggacttcct  
ggaagacagg 300

gccgccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2817

<211> 235

<212> DNA

<213> Homo sapiens

<400> 2817

tggcagccta agagggagtg tcatttcttc aatgggacgg agcgggtgcg  
gttcctggac 60

agatacttct ataaccagga ggagtcctgt cgcttcgaca gcgacgtggg  
ggagtaccgg 120

gcggtgacgg agctggggcg gcctgacgct gagtactgga acagccagaa  
ggacttcctg 180

gaagacaggc gggcccttgt ggacacctac tgcagacaca actacggggg  
tggtg 235

<210> 2818

<211> 240

<212> DNA

<213> Homo sapiens

<400> 2818

ctgtggcagc ctaagagga gtgtcatttc ttcaatggga cggagcgggt  
gcggttctcg 60

gacagatact tctataacca ggaggagtcc gtgcgcttcg acagcgacgt  
gggggagtac 120

ggggcggtga cggagctggg gcggcctgac gctgagtact ggaacagcca  
gaaggacatc 180

ctggaagaca ggcgcgccgc ggtggacacc tactgcagac acaactacgg  
ggttggtgag 240

<210> 2819

<211> 262

<212> DNA

<213> Homo sapiens

<400> 2819

cacgtttcct gtggcagcct aagagggagt gtcatttcct caatgggacg  
gagcgggtgc 60

ggttcccgga cagatacttc tataaccagg aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggccctgacgc tgagtactgg  
aacagccaga 180

aggacatcct ggaagacagg cgcgccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg ca  
262

<210> 2820

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2820

cacgtttcct gtggcagcct aagagggagt gtcatttcct caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcttgacgc tgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgcgccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2821

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2821

ggggacaccc gaccacgttt cttggagctg cgtaagtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggtacct ggacagatac ttccataacc aggaggagtt  
cctgcgcttc 120

gacagcgacg tggggggagta ccggggcggg acggagctgg ggcggcctgt  
cgccgagtc 180

tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggacaa  
ttactgcaga 240

cacaactacg ggggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2822

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2822

atggtgtgtc tgaagctccc tggaggctcc agcttggcag cgttgacagt  
gacactgatg 60

gtgctgagct cccgactggc ttctgctggg gacacccgac cacgtttctt  
ggagctgcgt 120

aagtctgagt gtcatttctt caatgggacg gagcgggtgc ggtacctgga  
cagatacttc 180

cataaccagg aggagttcct gcgcttcgac agcgacgtgg gggagtaccg  
ggcggtgacg 240

gagctggggc ggcctgtcgc cgagtcctgg aacagccaga aggacctcct  
ggagcagaag 300

cggggccggg tggacaatta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2823

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2823

ggggacaccc gaccacgttt ctgggagctg cgtaagtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggtacct ggacagatac ttccataacc aggaggagtt  
cctgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctgt  
tgccgagtc 180

tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggacaa  
ttactgcaga 240

cacaactacg gggttggtga gagc  
264

<210> 2824

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2824



cacgtttctt ggagctgctg aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtagcttga cagatacttc cataaccagg aggagttcct gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc gccctgtcgc cgagtcttgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac  
aactacggag 240

ttggtg  
246

<210> 2825

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2825

ggggacaccc gaccacgttt ctgggagctg tgtaagtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcgggtacct ggacagatac ttccataacc aggaggagtt  
cctgcgcttc 120

gacagcgacg tggggggagta ccggggcggg acggagctgg ggcggcctgt  
cgccgagtcc 180

tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggacaa  
ttactgcaga 240

cacaactacg gggttggtga gagc  
264

<210> 2826

<211> 251

<212> DNA

<213> Homo sapiens

<400> 2826

cacgtttctt ggagctgctg aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga gagatacttc cataaccagg aggagttcct gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgtcgc cgagtctctg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag c  
251

<210> 2827

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2827

cacgtttctc ggagctgcgt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagttcct gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgtcgc cgagtctctg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag cttcaca  
257

<210> 2828

<211> 268

<212> DNA

<213> Homo sapiens

<400> 2828

cacgtttctt ggagctgcgt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgaa cagatacttc cataaccagg aggagttcct gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgtcgc cgagtctctgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcg  
268

<210> 2829

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2829

cacgtttctt ggagctgcgt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgtcgc cgagtctctgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2830

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2830

cacgtttctt ggagctgcgt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgag gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2831  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 2831  
cacgtttctt ggagctgct aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgtcgc cgagtcctgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcgg  
266

<210> 2832  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 2832  
cacgtttctt ggagctgct aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgtcgc cgagtctctgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcgg  
266

<210> 2833

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2833

cacgtttctt ggagctgct aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagttcct gagcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgtcgc cgagtctctgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2834

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2834

atggtgtgtc tgaagctccc tggaggtctc agcttggcag cgttgacagt  
gacactgatg 60

gtgctgagct cccgactggc ttctgctggg gacacccgac cacgtttctt  
ggagctgctt 120

aagtctgagt gtcatttctt caatgggacg gagcgggtgc ggttcctgga  
gagacacttc 180

cataaccagg agggagtacgc gcgcttcgac agcgacgtgg gggagtagcg  
ggcggtagag 240

gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacctcct  
ggagcagaag 300

cggggccagg tggacaatta ctgcagacac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2835

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2835

ggggacaccc gaccacgttt cttggagctg ctttaagtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggagagacac ttccataacc aggaggagta  
cgcgcgcttc 120

gacagcgacg tggggggagta ccggggcggg agggagctgg ggcggcctga  
tgccgagtag 180

tggaacagcc agaaggacct cctggagcag aagcggggcc aggtggacaa  
ttactgcaga 240

cacaactacg gggttgggtga gagcttcaca gtgcagcggc gag  
283

<210> 2836

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2836

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaacta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2837

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2837

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcaggcac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2838

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2838

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc ggcttgatgc ggagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2839

<211> 241

<212> DNA

<213> Homo sapiens

<400> 2839

ttggagctgc ttaagtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggttctcg 60

gagagacact tccataacca ggaggagtcc gtgcgcttcg acagcgacgt  
gggggagtag 120

ggggcgggtg gggagctggg gcggcctgat gccgagtact ggaacagcca  
gaaggacctc 180

ctggagcaga agcggggcca ggtggacaat tactgcagac acaactacgg  
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241

<210> 2840

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2840

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ggttctctga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120



gggagtaccg ggcggtgagg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2841

<211> 261

<212> DNA

<213> Homo sapiens

<400> 2841

cgtttcttgg agctgcttaa gtctgagtgt catttcttca atgggacgga  
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cgacgtgggg 120

gagtaccggg cggtgaggga gctggggcgg cctgatgccg agtactggaa  
cagccagaag 180

gacctcctgg agcagaagcg gggccagggtg gacaattact gcagacacaa  
ctacggggtt 240

ggtgagagct tcacagtga g  
261

<210> 2842

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2842

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gagcgggtgc 60

ggttctctga gagacacttc cataaccagg aggagaacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2843  
<211> 242  
<212> DNA  
<213> Homo sapiens

<400> 2843  
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gcggttcctg 60

gagagacact tccataacca ggaggagtac gcgcgcttcg acagcgacgt  
gggggagtag 120

cgggcggtga gggagctggg gcggcctgtc gccgagtact ggaacagcca  
gaaggacctc 180

ctggagcaga agcggggcca ggtggacaat tactgcagac acaactacgg  
ggttggtgag 240

ag  
242

<210> 2844  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 2844  
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gagcgggtgc 60

ggttcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtg 120

gggagtaccg ggcggtgagg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2845  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2845  
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gagcgggtgc 60

ggttcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgtcgc cgagtctcgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag cttcaca  
257

<210> 2846  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2846  
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cttcaatggg 60

acggagcggg tgcggttcct ggagagacac ttccataacc aggaggagta  
cgcgcgcttc 120

gacagcgacg tggggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180

tggaacagcc agaaggacct cctggagcag aagcggggcc aggtggacaa  
ttactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2847  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2847  
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cttcaatggg 60

acggagcggg tgcggttcct ggagagacac ttccataacc aggaggagta  
cgcgcgcttc 120

gacagcgacg tggggggagta ccgggcgggtg agggagctgg ggcggcctga  
tgccgagtagc 180

tggaacagcc agaaggacat cctggagcag aagcggggcc aggtggacaa  
ttactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2848  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2848  
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gagcgggtgc 60

ggttctctgga gagacacttc cataaccagg aggagtagcg gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc ggctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2849  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2849  
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gagcgggtgc 60

ggctctcgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc gccctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2850  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2850  
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gagcgggtgc 60

ggttctcgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc gccctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttgctgagag cttcacagtg cagcggcgag  
270

<210> 2851  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2851  
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gagcgggtgc 60  
  
ggttcctgga gagacacttc cataaccagg aggagtagcg gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgagg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacctctt ggagcagaag cggggccagg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2852  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2852  
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gagcgggtgc 60  
  
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agcgacgtgg 120  
  
gggagtaccg ggcggtgagg gagctggggc ggcctgctgc ggagcactgg  
aacagccaga 180  
  
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aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2853  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2853  
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gagcgggtgc 60  
  
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agcgacgtgg 120  
  
gggagtaccg ggcggtgagg gagctggggc ggctgatgc cgagtactgg  
aacagccaga 180  
  
aggacttcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2854  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2854  
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cttcaatggg 60  
  
acggagcggg tgcggttcct ggagagatac ttccataacc aggaggagtt  
cgtgcgcttc 120  
  
gacagcgacg tggggggagta ccgggcggtg acggagctgg ggcggcctgt  
cgccgagtc 180  
  
tggaacagcc agaaggacct cctggagcag aagcggggcc aggtggacaa  
ttactgcaga 240  
  
cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2855  
<211> 270

<212> DNA  
<213> Homo sapiens

<400> 2855  
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gagcgggtgc 60  
  
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agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggctgtcgc cgagtctctg  
aacagccaga 180  
  
aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacggcg 240  
  
ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2856  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 2856  
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gagcgggtgc 60  
  
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agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggctgtcgc cgagtctctg  
aacagccaga 180  
  
aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240  
  
ttgtgg  
246

<210> 2857  
<211> 253  
<212> DNA  
<213> Homo sapiens



<400> 2857

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gggtgcggtt 60

cctggagaga tacttccata accaggagga gttcgtgcgc ttcgacacgc  
acgtggggga 120

gtaccgggagc gtgacggagc tggggcgcc tgcgccgag tcctggaaca  
gccagaagga 180

cctcctggag cagaagcggg gccgggtgga caattactgc agacacaact  
acgggggttg 240

tgagagcttc aca  
253

<210> 2858

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2858

atggtgtgtc tgaagctccc tggaggtccc tgtatggcag cgctgacagt  
gacattgacg 60

gtgctgagct cccactggc tttggctggg gacaccaac cactttctt  
ggagcaggct 120

aagtgtgagt gtcatttcct caatgggacg gagcgagtgt ggaacctgat  
cagatacatc 180

tataaccaag aggagtacgc gcgctacaac agtgacctgg gggagtacca  
ggcggtagcg 240

gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacctcct  
ggagcgaggg 300

cgggccgagg tggacaccta ctgcagatac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2859  
<211> 220  
<212> DNA  
<213> Homo sapiens

<400> 2859  
gagcgagtggt ggaacctgat cagatacatc tataaccaag aggagtacgc  
cgctacaac 60

agtgacctgg gggagtagca ggcggtgacg gagctggggc ggctgacgc  
tgagtactgg 120

aacagccaga aggacctcct ggagcggagg cgggccgagg tgggcaccta  
ctgcagatac 180

aactacgggg ttgtggagag cttcacagtg cagcggcgag  
220

<210> 2860  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2860  
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cctcaatggg 60

acggagcgag tgttgaacct gatcagatac atctataacc aagaggagta  
cgcgcgctac 120

aacagtgacc tgggggagta ccaggcgggtg acggagctgg ggcggcctga  
cgctgagtag 180

tggaacagcc agaaggacct cctggagcgg aggcggggccg aggtggacac  
ctactgcaga 240

tacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2861  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 2861  
atggtgtgtc tgaagctccc tggaggctcc tgtatggcag cgctgacagt  
gacattgacg 60

gtgctgagct ccccaactggc ttggtctggg gacacccaac cacgtttctt  
ggagcaggct 120

aagtgtgagt gtcatttcct caatgggacg gagcgagtgt ggaacctgat  
cagatacatc 180

tataaccaag aggagtacgc gcgctacaac agtgacctgg gggagtacca  
ggcggtgacg 240

gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacctcct  
ggagcggagg 300

cgggccgagg tggacaccta ttgcagatac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2862

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2862  
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gagcgagtgt 60

ggaacctgat cagatacatc tataaccaag aggagtacgc gcgctacaac  
agtgatcttg 120

gggagtacca ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ctgcagatac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2863

<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2863  
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gagcgagtgt 60

ggaacctgat cagatacatc tataaccaag aggagtagcg gcgctacaac  
agtgacctgg 120

gggagtagca ggcggtgacg gagctggggc gccctgacgc tgagtactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaacta ctgcagatac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2864  
<211> 242  
<212> DNA  
<213> Homo sapiens

<400> 2864  
ttggagcagg ctaagtgtga gtgtcatttc ctcaatggga cggagcgagt  
gtggaacctg 60

atcagatata tctataacca agaggagtac gcgcgctaca acagtgacct  
gggggagtac 120

caggcggtag cggagctggg gcggcctgac gctgagtact ggaacagcca  
gaaggacctc 180

ctggagcgga ggcggggccga ggtggacacc tactgcagac acaactacgg  
ggttgtagag 240

ag  
242

<210> 2865  
<211> 270  
<212> DNA

<213> Homo sapiens

<400> 2865

cacgttttctt ggagcaggct aagtgtgagt gtcatttcct caatgggacg  
gagcgagtgt 60

ggaacctgat cagatacatc tataaccaag aggagtacgc gcgctacaac  
agtacctgg 120

gggagtacca ggcggtgacg gagctggggc ggctgacgc tgagtactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ctgcagatac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2866

<211> 300

<212> DNA

<213> Homo sapiens

<400> 2866

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tgagcgaggc 60

taagtgtgag tgtcatttcc tcaatgggac ggagcctgat cagatacatc  
tataaccaag 120

aggagtacgc gcgctacaac agtgacctgg gggagtacca ggcggtgacg  
gagctggggc 180

ggcctgacgc tgagtactgg aacagccaga aggacctcct ggagcggagg  
cgggccgagg 240

tggacaccta ctgcagatac aactacgggg ttgtggagag cttcacagtg  
cagcggcgag 300

<210> 2867

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2867

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gacactgatg 60

gtgctgagct ccccaactggc ttggtctggg gacacccgac cacgtttctt  
gcagcaggat 120

aagtatgagt gtcattttctt caacgggacg gagcgggtgc ggttcctgca  
cagagacatc 180

tataaccaag aggaggactt gcgcttcgac agcgacgtgg gggagtaccg  
ggcggtgacg 240

gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacttctt  
ggaagacagg 300

cgcgccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2868

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2868

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gagcgggtgc 60

ggttcctgca cagagacatc tataaccaag aggaggactt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacttctt ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcaca  
257

<210> 2869

<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2869  
ggggacaccc gaccacgttt cttgcagcag gataagtatg agtgtcattt  
cttcaacggg 60

acggagcggg tgcggttcct gcacagaggc atctataacc aagaggagaa  
cgtgcgcttc 120

gacagcgacg tggggggagta ccgggcgggtg acggagctgg ggcggcctga  
cgctgagtac 180

tggaacagcc agaaggactt cctggaagac aggcgcgccg cgggtggacac  
ctactgcaga 240

cacaactacg ggggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2870  
<211> 250  
<212> DNA  
<213> Homo sapiens

<400> 2870  
ttgcagcagg ataagtatga gtgtcatttc ttcaacggga cggagcgggt  
gcggttcctg 60

cacagaggca tctataacca agaggagaac gtgcgcttcg acagcgacgt  
gggggagtac 120

cgggcgggtga cggagctggg gcggcctgac gctgagtact ggaacagcca  
gaaggacttc 180

ctggaagaca cgcgcgccgc ggtggacacc tactgcagac acaactacgg  
ggttggtgag 240

agcttcacag  
250

<210> 2871  
<211> 283  
<212> DNA

<213> Homo sapiens

<400> 2871

ggggacaccc gaccacgttt cttgcagcag gataagtatg agtgtcattt  
cttcaacggg 60

acggagcggg tgcggttcct gcacagagac atctataacc aagaggagga  
cttgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
cgctgagtac 180

tggaacagcc agaaggactt cctggaagac aggcggggccc tgggtggacac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2872

<211> 267

<212> DNA

<213> Homo sapiens

<400> 2872

ccacgtttct tgcagcagga taagtatgag tgtcatttct tcaacgggac  
ggagcgggtg 60

cggttcctgc acagagacat ctataaccaa gaggaggacg tgcgcttcga  
cagcgacgtg 120

ggggagtacc gggcgggtgac ggagctgggg cggcctgacg ctgagtactg  
gaacagccag 180

aaggacttcc tggaagacag gcgcgccgcg gtggacacct actgcagaca  
caactacggg 240

gttggtgaga gcttcacagt gcagcgg  
267

<210> 2873

<211> 269

<212> DNA

<213> Homo sapiens



<400> 2873  
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gagcgggtgc 60

ggttctctgca cagagacatc tataaccaag aggaggactt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacatcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ctgtggagag cttcacagtg cagcggcga  
269

<210> 2874  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 2874  
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gagcgggtgc 60

ggttctctgca cagagacatc tataaccaag aggaggactt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacatcct ggaagacagg cgcgccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2875  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 2875

cacgtttctt gcagcaggat aagtatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttctctgca cagagacatc tataaccaag aggaggactt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacttctt ggaaaacagg cgcgccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2876

<211> 268

<212> DNA

<213> Homo sapiens

<400> 2876

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gagcgggtgc 60

ggttctctgca cagagacatc tataaccaag aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

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gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc  
taccagacct 720

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atggaacaca 780

gcgggaatca cagcaactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgtgc tgctgctgct  
gctatttttg 900

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gagggtccag 960

agctcgtgag cctgcaggtc ctggatcaac acccagttgg gacgagtgc  
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<211> 813

<212> DNA

<213> Homo sapiens

<400> 3430

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

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aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

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aacctggaga 360

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aacgtcagga 420

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catgcagact 480

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acagtgcgcc 540

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acatgcaggg 600

ctttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc  
taccagacct 720

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813

<210> 3431

<211> 1067

<212> DNA

<213> Homo sapiens

<400> 3431

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tgcaggggcaa 120

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agagagacca 180

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aaggaccaga 240

aagaaggtct gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacgtggaga 360

ctgaggaatg gacagtgcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420



atttctttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
agagtgcctc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacctg  
acatgcaggg 600

cttcacgctt ctatccccgg aatatcacac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

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gttattatta 900

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gagctcgtga 960

gcctgcaggt cctggatcaa caccagttg ggacgagtga ccacagggat  
gccacacagc 1020

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1067

<210> 3432

<211> 812

<212> DNA

<213> Homo sapiens

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

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aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgcc cagtctctca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcttcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatgggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttcacgctt ctatccccgg aatatcacac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagaggtt cacctgctac  
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gcgggaatca cagcactcac cctgtgccct ct  
812

<210> 3433

<211> 1067

<212> DNA

<213> Homo sapiens

<400> 3433

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggtct gcattccctc caggagatta gggctgtgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacgtggaga 360

ctgaggaatg gacagtgcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcatagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tgctattttt  
gttattatta 900

ttttctatgt ccgttgttgt aagaagaaaa catcagctgc agagggtcca  
gagctcgtga 960

gctgcaggt cctggatcaa caccagttg ggacgagtga ccacagggat  
gccacacagc 1020

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1067

<210> 3434

<211> 945

<212> DNA

<213> Homo sapiens

<400> 3434

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tgcaggggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

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aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcctc 540

ccatgggtgaa tgtcacccgc agtgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctat ttttgttatt  
attattttct 900

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945

<210> 3435

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3435

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ctgaggtaga tctggatggc cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggc acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
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ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

ctttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3436

<211> 1065

<212> DNA

<213> Homo sapiens

<400> 3436

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tgcaggggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaaacgga aaggacctca ggatgacctt ggctcatatc  
aaggaccaga 240

aagaaggtct gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

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acagtgcgcc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacctg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg  
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gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
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tattattatt 900

ttctatgtcc gttgttgtaa gaagaaaaca tcagctgcag agggccaga  
gctcgtgagc 960

ctgcaggctc tggatcaaca ccagttggg acgagtgacc acagggatgc  
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1065

<210> 3437

<211> 949

<212> DNA

<213> Homo sapiens

<400> 3437

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tgcagggcaa 120

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aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgcc cagtccctca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gctgcagga actacggcga tatctagaat cgggcgtagt cctgaggaga  
acagtgcgcc 540

ccatgggtgaa tgtcacccgc agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttcacgctt ctatccccgg aatatcatac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac taggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

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949

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<211> 813

<212> DNA



<213> Homo sapiens

<400> 3438

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tgcagggcaa 120

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aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgtcc cagtcctcca gagctcagac cttggccatg  
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atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga  
acagtgtccc 540

ccatggtgaa tgtcacccgc agcgaggcat cagagggcaa catcaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagaggtt cacctgctac  
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813

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<212> DNA  
<213> Homo sapiens

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tgcagggcaa 120

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gacaacagca 300

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acatgcaggg 600

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gttattatta 900

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gccacacagc 1020

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1067

<210> 3440

<211> 1067

<212> DNA

<213> Homo sapiens

<400> 3440

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
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aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactatgatg gggagctctt cctctcccaa  
aacgtggaga 360

ctgaggaatg gacagtgcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
acagtgcgcc 540

ccatgggtgaa tgtcacccgc agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttcacgctt ctatccccgg aatatcacac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
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gttattatta 900

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gccacacagc 1020

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1067

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<211> 1064

<212> DNA

<213> Homo sapiens

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
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 gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgctgtatgg gaatggaacc  
 taccagacct 720

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gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
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 acacagctcg 1020

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 1064

<210> 3442  
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<212> DNA  
<213> Homo sapiens

<400> 3442  
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tgcaggggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac aggggaacgga aaggacctca ggtgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc gtgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcctc 540

ccatgggtgaa tgtcacccgc agcagggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac  
atggaacaca 780

gcgggaatca cagcaactcac gctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tgctattttt  
gttattatta 900

ttttctatgt ctgttggtgt aagaagaaaa catcagctgc agaggggtcca  
gagctcgtga 960

gctgcaggt cctggatcaa caccagttg ggacgagtga ccacagggat  
gccacacagc 1020

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1067

<210> 3443

<211> 1061

<212> DNA

<213> Homo sapiens

<400> 3443

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gagacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta ggtctgtgta gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacactcta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

ctttctggtt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccattgtttct gctgttctg ctgctgctat ttttgttatt  
attatcttct 900

atgtccgttg ttgtaagaag aaaacatcag ctgcagaggg tccagagctc  
gtgagcctgc 960

aggtcctgga tcaacaccca gttgggacga gtgaccacag ggatgccaca  
cagctcggat 1020

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1061

<210> 3444

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3444

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180



gagacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtccctca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacactcta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcaccgcg agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

ctttctgctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgctctgatg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcaaagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3445

<211> 812

<212> DNA

<213> Homo sapiens

<400> 3445

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgcc cagtctctca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcttcagga actacggcga tatctagaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatgggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagaggtt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ct  
812

<210> 3446

<211> 812

<212> DNA

<213> Homo sapiens

<400> 3446

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ctgagggtaca tctggtatggt cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggtct gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgata gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga  
agagtgtccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ct  
812

<210> 3447

<211> 969

<212> DNA

<213> Homo sapiens

<400> 3447

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac aggggaacgga aaggacctca ggatgacctt ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgata gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtccctca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcaccgcg agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgctgatggg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctggaagtgt ctggtgcttc  
agagtcattg 840

gcagacattc catgtttctg ctgttgctgc tgctgctgct gctgctgctg  
ctatttttgt 900

tattattatt ttctacgtct gttgttgtaa gaagaaaaca tcagctgcag  
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969

<210> 3448

<211> 1064

<212> DNA

<213> Homo sapiens

<400> 3448

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ctgaggtaga tctggatggg cagcccttcc tgcgctatga caggcagaaa  
tgcaggggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac aggggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
acagtgcacc 540

ccatgggtgaa tgtcaccgc agcaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg  
ctatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagaggtt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tatttttgtt  
attattattt 900

tctatgtccg ttgttgtaag aagaaaacat cagctgcaga gggccagag  
ctcgtgagcc 960

tgcaggctct ggatcaacac ccagttggga cgagtgacca cagggatgcc  
acacagctcg 1020

gatttcagcc tctgatgtca gctcttgggt ccactggttc cact  
1064

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<211> 969

<212> DNA

<213> Homo sapiens

<400> 3449

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc cgggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcttcgagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcaccgcg agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggttt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctggaaagtg ctggtgcttc  
agagtcattg 840

gcagacattc catgtttctg ctgttgctgc tgctgctgct gctgctgctg  
ctatctttgt 900

tattattatt ttctacgtct gttgttgtaa gaagaaaaca tcagctgcag  
agggtccagg 960

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969

<210> 3450

<211> 1061

<212> DNA

<213> Homo sapiens

<400> 3450

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ctgagggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg	acagtgggca	gaagatgtcc	tgggaaataa	gacatgggac
agagagacca	180			
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aaggaccaga	240			
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gacaacagca	300			
ccaggagctc	ccagcatttc	tactacgatg	gggagctctt	cctctcccaa
aacctggaga	360			
ctgaggaatg	gacaatgccc	cagtccctca	gagctcagac	cttggccatg
aacgtcagga	420			
atttcttgaa	ggaagatgcc	atgaagacca	agacacacta	tcacgctatg
catgcagact	480			
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acagtgcgcc	540			
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acatgcaggg	600			
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gtatctttga	660			
gccacgacac	ccagcagtgg	ggggatgtcc	tgccctgatg	gaatggaacc
taccagacct	720			
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atggaacaca	780			
gcgggaatca	cagcactcac	cctgtgccct	ctgggaaagt	gctggtgctt
cagagtcatt	840			
ggcagacatt	ccatgtttct	gctgttctgt	ctgctgctat	ttttgttatt
attattttct	900			
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gtgagcctgc	960			
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1061

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<211> 997

<212> DNA

<213> Homo sapiens

<400> 3451

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaaacgga aaggacctca ggatgacctt ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgcc cagtctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
acagtgcctc 540

ccatggtgaa tgtcacccgc agcaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagaggtt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tatttttgtt  
attattattt 900

tctatgtccg ttgttgtaag aagaaaacat cagctgcaga gggccagag  
ctcgtgagcc 960

tgcaggtcct ggatcaacac ccagttggga cgagtgt  
997

<210> 3452

<211> 963

<212> DNA

<213> Homo sapiens

<400> 3452

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggett gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

ctttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccattgtttct gctgttctgt ctgctgctgc tgctgctgct  
gctgctattt 900

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cag  
963

<210> 3453

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3453

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tcaggggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaacaa gacatgggac  
agagagacca 180

gagacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
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ctgaggaatg gacaatgcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacactcta tcacgctatg  
catgcagact 480

gctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

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813

<210> 3454

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3454

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgcct cagtccctca gagctcagac cttggccatg  
aacgtcagga 420

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catgcagact 480

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acagtgcctc 540

ccatggtgaa tgtcaccgcg agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

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gccacgacac ccagcagtgg ggggatgtcc tgctctgatg gaatggaacc  
taccagacct 720

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<212> DNA

<213> Homo sapiens

<400> 3455

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

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aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

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aacgtcagga 420

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catgcagact 480

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acagtgcgcc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

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gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
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atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctggctgctg ctatttttgt  
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<211> 813

<212> DNA

<213> Homo sapiens

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tgcagggcaa 120

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agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgtcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga  
acagtgtccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg  
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taccagacct 720

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813

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tgcagggcaa 120

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agagagacca 180

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aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

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aacgtcagga 420

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catgcagact 480

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acagtgcctc 540

ccatgggtgaa tgtcaccgcg agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

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gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc  
taccagacct 720

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813

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tgcaggggcaa 120

agccccaggc acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac aggggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtctctca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcaccgcg agtgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

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gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

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atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tgctattttt  
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951

<210> 3459

<211> 948

<212> DNA

<213> Homo sapiens

<400> 3459

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tgcagggcaa 120

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agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

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aacctggaga 360

ctgaggaatg gacagtgcc cagtctcca gagctcagac cttggccatg  
aacgtcagga 420

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catgcagact 480

gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga  
acagtgcccc 540

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acatgcaggg 600

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gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
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948

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<211> 920

<212> DNA

<213> Homo sapiens

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

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acatgcaggg 600

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gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctggctgctg ctatttttgt  
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<211> 945

<212> DNA

<213> Homo sapiens

<400> 3461

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

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aaggaccaga 240

aagaaggtct gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtccctca gagctcagac cttggccatg  
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catgcagact 480

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ccatggtgaa tgtcaccgcg agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

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taccagacct 720

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gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
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<213> Homo sapiens

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tgcagggcaa 120

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aaggaccaga 240

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gacaacagca 300

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aacctggaga 360

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catgcagact 480

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acatgcaggg 600

cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
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gccacgacac ccagcagtgg ggggatgtcc tgctctgatg gaatggaacc  
taccagacct 720

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tgcagggcaa 120

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gacaacagca 300

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aacgtcagga 420

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catgcagact 480

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acagtgcgcc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

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taccagacct 720

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gacaacagca 300

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ccatgggtgaa tgtcacccgc agcagggcct cagagggcaa cattaccgtg  
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gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc  
taccagacct 720

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gacaacagca 300

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aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
acagtgcgcc 540

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acatgcaggg 600

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gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

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gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

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<212> DNA

<213> Homo sapiens

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tgcagggcaa 120

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agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

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aacctggaga 360

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catgcagact 480

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ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcaccgtg  
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gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
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<211> 813

<212> DNA

<213> Homo sapiens

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tgcagggcaa 120

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agagagacca 180

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gacaacagca 300

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aacctggaga 360

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catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatgggtgaa tgtcacccgc agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

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gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc  
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813

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<211> 813

<212> DNA

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tgcaggggcaa 120

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aaggaccaga 240

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gacaacagca 300

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aacgtcagga 420

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catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcaccgcg agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggttt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
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<210> 3469

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3469

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

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aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

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aacgtcagga 420

atctcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcttcgagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatgggtgaa tgtcaccgcg agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac  
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813

<210> 3470

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3470

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tgcaggggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

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aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctett cctctcccaa  
aacctggaga 360

ctgagggaatg gacaatgccc cagtctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

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ccatggtgaa tgtcaccgcg agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac  
atggaacaca 780

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813

<210> 3471

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3471

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

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aaggaccaga 240

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aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

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acatgcaggg 600

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ctatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac  
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813

<210> 3472

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3472

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180



gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctaaggaatg gacaatgccc cagtccctca gagctcagac cttggccatg  
aacgtcagga 420

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catgcagact 480

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acagtgcgcc 540

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acatgcaggg 600

ctttctgctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgctctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3473

<211> 960

<212> DNA

<213> Homo sapiens

<400> 3473

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtccctca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gctgcagga actacggcga tatctaaaat cgggcgtagt cctgaggaga  
acagtgcgcc 540

ccatgggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttctgt ctgctgtctg tgctgtctgt  
gctatttttg 900

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<211> 813

<212> DNA

<213> Homo sapiens

<400> 3474

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctcct cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat cgggcgtagt cctgaggaga  
acagtgcctc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac taggatttgc cgaggagagg agcagaggtt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3475  
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<212> DNA  
<213> Homo sapiens

<400> 3475  
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tgcagggcaa 120

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agagagacca 180

gggacttgac aggggaacgga aaggacctca ggtgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacgcta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcctc 540

ccatgggtgaa tgtcacccgc agcagggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagttt cacctgctac  
atggaacaca 780

gcgggaatca cagcaactcac cctgtgcct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctat ttttgttatt  
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945

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<211> 813

<212> DNA

<213> Homo sapiens

<400> 3476

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tcagaggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacotca ggatgacctt ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacgtggaga 360

ctgaggaatg gacagtggcc cagtctctca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
agagtgcctc 540

ccatggtgaa tgtcaccgcg agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
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813

<210> 3477

<211> 945

<212> DNA

<213> Homo sapiens

<400> 3477

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctott cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtccctca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat cgggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agtgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

ctttctgctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc gaaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctat ttttgttatt  
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945

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<211> 960

<212> DNA

<213> Homo sapiens

<400> 3478

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
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aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

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aacctggaga 360

ctgaggaatg gacaatgcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atctcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

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acagtgcgcc 540

ccatggtgaa tgtcaccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggtt ctgtccctgg aatatcacac tgagctggcg tcaggatggg  
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gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

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gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tgctgctgct  
gctatttttg 900

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<210> 3479

<211> 951

<212> DNA

<213> Homo sapiens

<400> 3479

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180



gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
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 gacaacagca 300

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ctgaggaatg gacaatgccc cagtccctca gagctcagac cttggccatg  
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 catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
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 gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc  
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gggtgccac caggatttgc caaggagagg agcagagggt cactgctac  
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gcgggaatca cagcactcac gctgtgccct ctgggaaagt gctggtgctt  
 cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tgctatttt  
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 951

<210> 3480  
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 <212> DNA  
 <213> Homo sapiens  
 <400> 3480

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tgcaggggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
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aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

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catgcagact 480

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ccatgggtgaa tgtcaccgcg agcgaggcct cagaggggcaa catcaccgtg  
acatgcaggg 600

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gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgacctgatg gaatggaacc  
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cagagtcatt 840

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attattattt 900

tctatgtccg ttgttgtaag aagaaaacat cagctgcaga tgggtccagag  
ctcgtgagcc 960

tgcaggctcct ggatcaaacac ccagttggga cgagtgacca cagggatgcc  
acacagctcg 1020

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<210> 3481

<211> 1067

<212> DNA

<213> Homo sapiens

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tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
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gacaacagca 300

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aacgtggaga 360

ctgaggaatg gacagtggcc cagtctctca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
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